

Filter Summary Report: TIA simple Z1 Z4 ZL

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10.28INVALID-ORDER-28	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	95
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10.39INVALID-ORDER-39	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	97
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10.41INVALID-ORDER-41	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	98
10.42INVALID-ORDER-42	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	98
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10.44INVALID-ORDER-44	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	98
10.45INVALID-ORDER-45	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	98
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10.47INVALID-ORDER-47	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	99
10.48INVALID-ORDER-48	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	99
10.49INVALID-ORDER-49	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	99

10.50INVALID-ORDER-50	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	99
10.51INVALID-ORDER-51	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	99
10.52INVALID-ORDER-52	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	100
10.53INVALID-ORDER-53	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	100
10.54INVALID-ORDER-54	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	100
10.55INVALID-ORDER-55	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	100
10.56INVALID-ORDER-56	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	100
10.57INVALID-ORDER-57	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	101
10.58INVALID-ORDER-58	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	101
10.59INVALID-ORDER-59	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	101
10.60INVALID-ORDER-60	$Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1} + \frac{1}{L_1 s}}, \infty, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	101
10.61INVALID-ORDER-61	$Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1} + \frac{1}{L_1 s}}, \infty, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	101
10.62INVALID-ORDER-62	$Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1} + \frac{1}{L_1 s}}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	102
10.63INVALID-ORDER-63	$Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1} + \frac{1}{L_1 s}}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	102
10.64INVALID-ORDER-64	$Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1} + \frac{1}{L_1 s}}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	102
10.65INVALID-ORDER-65	$Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1} + \frac{1}{L_1 s}}, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	102
10.66INVALID-ORDER-66	$Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1} + \frac{1}{L_1 s}}, \infty, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	102
10.67INVALID-ORDER-67	$Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1} + \frac{1}{L_1 s}}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	103
10.68INVALID-ORDER-68	$Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1} + \frac{1}{L_1 s}}, \infty, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	103
10.69INVALID-ORDER-69	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \infty, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	103

10.70INVALID-ORDER-70	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \infty, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	103
10.71INVALID-ORDER-71	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	103
10.72INVALID-ORDER-72	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	104
10.73INVALID-ORDER-73	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	104
10.74INVALID-ORDER-74	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	104
10.75INVALID-ORDER-75	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \infty, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	104
10.76INVALID-ORDER-76	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	104
10.77INVALID-ORDER-77	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \infty, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	105
10.78INVALID-ORDER-78	$Z(s) = \left(\frac{R_1 (L_1 s + \frac{1}{C_1 s})}{L_1 s + R_1 + \frac{1}{C_1 s}}, \infty, \infty, \infty, \infty, R_L \right)$	105
10.79INVALID-ORDER-79	$Z(s) = \left(\frac{R_1 (L_1 s + \frac{1}{C_1 s})}{L_1 s + R_1 + \frac{1}{C_1 s}}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	105
10.80INVALID-ORDER-80	$Z(s) = \left(\frac{R_1 (L_1 s + \frac{1}{C_1 s})}{L_1 s + R_1 + \frac{1}{C_1 s}}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	105
10.81INVALID-ORDER-81	$Z(s) = \left(\frac{R_1 (L_1 s + \frac{1}{C_1 s})}{L_1 s + R_1 + \frac{1}{C_1 s}}, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	105
10.82INVALID-ORDER-82	$Z(s) = \left(\frac{R_1 (L_1 s + \frac{1}{C_1 s})}{L_1 s + R_1 + \frac{1}{C_1 s}}, \infty, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	106
10.83INVALID-ORDER-83	$Z(s) = \left(\frac{R_1 (L_1 s + \frac{1}{C_1 s})}{L_1 s + R_1 + \frac{1}{C_1 s}}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	106
10.84INVALID-ORDER-84	$Z(s) = \left(\frac{R_1 (L_1 s + \frac{1}{C_1 s})}{L_1 s + R_1 + \frac{1}{C_1 s}}, \infty, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	106
10.85INVALID-ORDER-85	$Z(s) = \left(\infty, R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	106
10.86INVALID-ORDER-86	$Z(s) = \left(\infty, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	106
10.87INVALID-ORDER-87	$Z(s) = \left(\infty, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	107
10.88INVALID-ORDER-88	$Z(s) = \left(\infty, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	107
10.89INVALID-ORDER-89	$Z(s) = \left(\infty, R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	107

10.90INVALID-ORDER-90	$Z(s) = \left(\infty, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	107
10.91INVALID-ORDER-91	$Z(s) = \left(\infty, R_2, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	107
10.92INVALID-ORDER-92	$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	108
10.93INVALID-ORDER-93	$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	108
10.94INVALID-ORDER-94	$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	108
10.95INVALID-ORDER-95	$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	108
10.96INVALID-ORDER-96	$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	108
10.97INVALID-ORDER-97	$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	108
10.98INVALID-ORDER-98	$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	109
10.99INVALID-ORDER-99	$Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	109
10.100INVALID-ORDER-100	$Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	109
10.101INVALID-ORDER-101	$Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	109
10.102INVALID-ORDER-102	$Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	109
10.103INVALID-ORDER-103	$Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	110
10.104INVALID-ORDER-104	$Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	110
10.105INVALID-ORDER-105	$Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	110
10.106INVALID-ORDER-106	$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	110
10.107INVALID-ORDER-107	$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	110
10.108INVALID-ORDER-108	$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	111
10.109INVALID-ORDER-109	$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	111
10.110INVALID-ORDER-110	$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	111
10.111INVALID-ORDER-111	$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	111

10.11 2 INVALID-ORDER-112	$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	111
10.11 3 INVALID-ORDER-113	$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	112
10.11 4 INVALID-ORDER-114	$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	112
10.11 5 INVALID-ORDER-115	$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	112
10.11 6 INVALID-ORDER-116	$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	112
10.11 7 INVALID-ORDER-117	$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	112
10.11 8 INVALID-ORDER-118	$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	113
10.11 9 INVALID-ORDER-119	$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	113
10.12 0 INVALID-ORDER-120	$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	113
10.12 1 INVALID-ORDER-121	$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	113
10.12 2 INVALID-ORDER-122	$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	113
10.12 3 INVALID-ORDER-123	$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	113
10.12 4 INVALID-ORDER-124	$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	114
10.12 5 INVALID-ORDER-125	$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	114
10.12 6 INVALID-ORDER-126	$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	114
10.12 7 INVALID-ORDER-127	$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	114
10.12 8 INVALID-ORDER-128	$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	114
10.12 9 INVALID-ORDER-129	$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	115
10.13 0 INVALID-ORDER-130	$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	115
10.13 1 INVALID-ORDER-131	$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	115
10.13 2 INVALID-ORDER-132	$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	115
10.13 3 INVALID-ORDER-133	$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	115

10.131INVALID-ORDER-134	$Z(s) = \left(\infty, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_L L_L s^2 + 1} + R_L \right)$	116
10.135INVALID-ORDER-135	$Z(s) = \left(\infty, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	116
10.136INVALID-ORDER-136	$Z(s) = \left(\infty, \frac{L_2s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L \right)$	116
10.137INVALID-ORDER-137	$Z(s) = \left(\infty, \frac{L_2s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	116
10.138INVALID-ORDER-138	$Z(s) = \left(\infty, \frac{L_2s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	116
10.139INVALID-ORDER-139	$Z(s) = \left(\infty, \frac{L_2s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	117
10.140INVALID-ORDER-140	$Z(s) = \left(\infty, \frac{L_2s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	117
10.141INVALID-ORDER-141	$Z(s) = \left(\infty, \frac{L_2s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	117
10.142INVALID-ORDER-142	$Z(s) = \left(\infty, \frac{L_2s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	117
10.143INVALID-ORDER-143	$Z(s) = \left(\infty, \frac{L_2s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	117
10.144INVALID-ORDER-144	$Z(s) = \left(\infty, \frac{L_2s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	118
10.145INVALID-ORDER-145	$Z(s) = \left(\infty, \frac{L_2s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	118
10.146INVALID-ORDER-146	$Z(s) = \left(\infty, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L \right)$	118
10.147INVALID-ORDER-147	$Z(s) = \left(\infty, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	118
10.148INVALID-ORDER-148	$Z(s) = \left(\infty, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	118
10.149INVALID-ORDER-149	$Z(s) = \left(\infty, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	119
10.150INVALID-ORDER-150	$Z(s) = \left(\infty, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	119
10.151INVALID-ORDER-151	$Z(s) = \left(\infty, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	119
10.152INVALID-ORDER-152	$Z(s) = \left(\infty, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	119
10.153INVALID-ORDER-153	$Z(s) = \left(\infty, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	119

10.154	INVALID-ORDER-154	$Z(s) = \left(\infty, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	120
10.155	INVALID-ORDER-155	$Z(s) = \left(\infty, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	120
10.156	INVALID-ORDER-156	$Z(s) = \left(\infty, \infty, R_3, \infty, \infty, R_L \right)$	120
10.157	INVALID-ORDER-157	$Z(s) = \left(\infty, \infty, R_3, \infty, \infty, \frac{1}{C_L s} \right)$	120
10.158	INVALID-ORDER-158	$Z(s) = \left(\infty, \infty, R_3, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	120
10.159	INVALID-ORDER-159	$Z(s) = \left(\infty, \infty, R_3, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	121
10.160	INVALID-ORDER-160	$Z(s) = \left(\infty, \infty, R_3, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	121
10.161	INVALID-ORDER-161	$Z(s) = \left(\infty, \infty, R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	121
10.162	INVALID-ORDER-162	$Z(s) = \left(\infty, \infty, R_3, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	121
10.163	INVALID-ORDER-163	$Z(s) = \left(\infty, \infty, R_3, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	121
10.164	INVALID-ORDER-164	$Z(s) = \left(\infty, \infty, R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	122
10.165	INVALID-ORDER-165	$Z(s) = \left(\infty, \infty, R_3, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	122
10.166	INVALID-ORDER-166	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L \right)$	122
10.167	INVALID-ORDER-167	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	122
10.168	INVALID-ORDER-168	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	122
10.169	INVALID-ORDER-169	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	122
10.170	INVALID-ORDER-170	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	123
10.171	INVALID-ORDER-171	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	123
10.172	INVALID-ORDER-172	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	123
10.173	INVALID-ORDER-173	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s} \right)$	123
10.174	INVALID-ORDER-174	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	123
10.175	INVALID-ORDER-175	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	123

10.176INVALID-ORDER-176	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	124
10.177INVALID-ORDER-177	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	124
10.178INVALID-ORDER-178	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	124
10.179INVALID-ORDER-179	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	124
10.180INVALID-ORDER-180	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	124
10.181INVALID-ORDER-181	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	125
10.182INVALID-ORDER-182	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	125
10.183INVALID-ORDER-183	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	125
10.184INVALID-ORDER-184	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	125
10.185INVALID-ORDER-185	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	125
10.186INVALID-ORDER-186	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	125
10.187INVALID-ORDER-187	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	126
10.188INVALID-ORDER-188	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s} \right)$	126
10.189INVALID-ORDER-189	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	126
10.190INVALID-ORDER-190	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	126
10.191INVALID-ORDER-191	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	126
10.192INVALID-ORDER-192	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	126
10.193INVALID-ORDER-193	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	127
10.194INVALID-ORDER-194	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	127
10.195INVALID-ORDER-195	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	127
10.196INVALID-ORDER-196	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	127
10.197INVALID-ORDER-197	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L \right)$	127

10.19	INVALID-ORDER-198	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s} \right)$	128
10.19	INVALID-ORDER-199	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	128
10.20	INVALID-ORDER-200	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	128
10.20	INVALID-ORDER-201	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	128
10.20	INVALID-ORDER-202	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	128
10.20	INVALID-ORDER-203	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	128
10.20	INVALID-ORDER-204	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	129
10.20	INVALID-ORDER-205	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	129
10.20	INVALID-ORDER-206	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	129
10.20	INVALID-ORDER-207	$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L \right)$	129
10.20	INVALID-ORDER-208	$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s} \right)$	129
10.20	INVALID-ORDER-209	$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	130
10.21	INVALID-ORDER-210	$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	130
10.21	INVALID-ORDER-211	$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	130
10.21	INVALID-ORDER-212	$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	130
10.21	INVALID-ORDER-213	$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	130
10.21	INVALID-ORDER-214	$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	130
10.21	INVALID-ORDER-215	$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	131
10.21	INVALID-ORDER-216	$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	131
10.21	INVALID-ORDER-217	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \infty, R_L \right)$	131
10.21	INVALID-ORDER-218	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \infty, \frac{1}{C_L s} \right)$	131

10.21	INVALID-ORDER-219	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	131
10.22	INVALID-ORDER-220	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	132
10.22	INVALID-ORDER-221	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	132
10.22	INVALID-ORDER-222	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	132
10.22	INVALID-ORDER-223	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	132
10.22	INVALID-ORDER-224	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	132
10.22	INVALID-ORDER-225	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	133
10.22	INVALID-ORDER-226	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	133
10.22	INVALID-ORDER-227	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, R_L \right)$	133
10.22	INVALID-ORDER-228	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \frac{1}{C_L s} \right)$	133
10.22	INVALID-ORDER-229	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	133
10.23	INVALID-ORDER-230	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	133
10.23	INVALID-ORDER-231	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	134
10.23	INVALID-ORDER-232	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	134
10.23	INVALID-ORDER-233	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	134
10.23	INVALID-ORDER-234	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	134
10.23	INVALID-ORDER-235	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	134
10.23	INVALID-ORDER-236	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	135
10.23	INVALID-ORDER-237	$Z(s) = \left(\infty, \infty, \frac{R_3 (L_3 s + \frac{1}{C_3 s})}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, R_L \right)$	135
10.23	INVALID-ORDER-238	$Z(s) = \left(\infty, \infty, \frac{R_3 (L_3 s + \frac{1}{C_3 s})}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, \frac{1}{C_L s} \right)$	135

10.23 9 INVALID-ORDER-239	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	135
10.24 0 INVALID-ORDER-240	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	135
10.24 1 INVALID-ORDER-241	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	136
10.24 2 INVALID-ORDER-242	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	136
10.24 3 INVALID-ORDER-243	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	136
10.24 4 INVALID-ORDER-244	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	136
10.24 5 INVALID-ORDER-245	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	136
10.24 6 INVALID-ORDER-246	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	137
10.24 7 INVALID-ORDER-247	$Z(s) = \left(\infty, \infty, \infty, R_4, \infty, R_L \right)$	137
10.24 8 INVALID-ORDER-248	$Z(s) = \left(\infty, \infty, \infty, R_4, \infty, \frac{1}{C_L s} \right)$	137
10.24 9 INVALID-ORDER-249	$Z(s) = \left(\infty, \infty, \infty, R_4, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	137
10.25 0 INVALID-ORDER-250	$Z(s) = \left(\infty, \infty, \infty, R_4, \infty, R_L + \frac{1}{C_L s} \right)$	137
10.25 1 INVALID-ORDER-251	$Z(s) = \left(\infty, \infty, \infty, R_4, \infty, L_L s + \frac{1}{C_L s} \right)$	138
10.25 2 INVALID-ORDER-252	$Z(s) = \left(\infty, \infty, \infty, R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	138
10.25 3 INVALID-ORDER-253	$Z(s) = \left(\infty, \infty, \infty, R_4, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	138
10.25 4 INVALID-ORDER-254	$Z(s) = \left(\infty, \infty, \infty, R_4, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	138
10.25 5 INVALID-ORDER-255	$Z(s) = \left(\infty, \infty, \infty, R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	138
10.25 6 INVALID-ORDER-256	$Z(s) = \left(\infty, \infty, \infty, R_4, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	139
10.25 7 INVALID-ORDER-257	$Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s}, \infty, R_L \right)$	139
10.25 8 INVALID-ORDER-258	$Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s} \right)$	139

10.25	INVALID-ORDER-259	$Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	139
10.26	INVALID-ORDER-260	$Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	139
10.26	INVALID-ORDER-261	$Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	140
10.26	INVALID-ORDER-262	$Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	140
10.26	INVALID-ORDER-263	$Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	140
10.26	INVALID-ORDER-264	$Z(s) = \left(\infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{1}{C_L s} \right)$	140
10.26	INVALID-ORDER-265	$Z(s) = \left(\infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L + \frac{1}{C_L s} \right)$	140
10.26	INVALID-ORDER-266	$Z(s) = \left(\infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + \frac{1}{C_L s} \right)$	141
10.26	INVALID-ORDER-267	$Z(s) = \left(\infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	141
10.26	INVALID-ORDER-268	$Z(s) = \left(\infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	141
10.26	INVALID-ORDER-269	$Z(s) = \left(\infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	141
10.27	INVALID-ORDER-270	$Z(s) = \left(\infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	141
10.27	INVALID-ORDER-271	$Z(s) = \left(\infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	142
10.27	INVALID-ORDER-272	$Z(s) = \left(\infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s} \right)$	142
10.27	INVALID-ORDER-273	$Z(s) = \left(\infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s} \right)$	142
10.27	INVALID-ORDER-274	$Z(s) = \left(\infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	142
10.27	INVALID-ORDER-275	$Z(s) = \left(\infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	142
10.27	INVALID-ORDER-276	$Z(s) = \left(\infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	143
10.27	INVALID-ORDER-277	$Z(s) = \left(\infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	143
10.27	INVALID-ORDER-278	$Z(s) = \left(\infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	143
10.27	INVALID-ORDER-279	$Z(s) = \left(\infty, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s} \right)$	143
10.28	INVALID-ORDER-280	$Z(s) = \left(\infty, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	143

10.28	INVALID-ORDER-281	$Z(s) = \left(\infty, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, R_L + \frac{1}{C_Ls} \right)$	144
10.28	INVALID-ORDER-282	$Z(s) = \left(\infty, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, L_Ls + \frac{1}{C_Ls} \right)$	144
10.28	INVALID-ORDER-283	$Z(s) = \left(\infty, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	144
10.28	INVALID-ORDER-284	$Z(s) = \left(\infty, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$	144
10.28	INVALID-ORDER-285	$Z(s) = \left(\infty, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	144
10.28	INVALID-ORDER-286	$Z(s) = \left(\infty, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	144
10.28	INVALID-ORDER-287	$Z(s) = \left(\infty, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	145
10.28	INVALID-ORDER-288	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \infty, R_L \right)$	145
10.28	INVALID-ORDER-289	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \infty, \frac{1}{C_Ls} \right)$	145
10.29	INVALID-ORDER-290	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \infty, \frac{R_L}{C_LR_Ls+1} \right)$	145
10.29	INVALID-ORDER-291	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \infty, R_L + \frac{1}{C_Ls} \right)$	145
10.29	INVALID-ORDER-292	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \infty, L_Ls + \frac{1}{C_Ls} \right)$	146
10.29	INVALID-ORDER-293	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \infty, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	146
10.29	INVALID-ORDER-294	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$	146
10.29	INVALID-ORDER-295	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	146
10.29	INVALID-ORDER-296	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	146
10.29	INVALID-ORDER-297	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \infty, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	147
10.29	INVALID-ORDER-298	$Z(s) = \left(\infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, R_L \right)$	147
10.29	INVALID-ORDER-299	$Z(s) = \left(\infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{1}{C_Ls} \right)$	147
10.30	INVALID-ORDER-300	$Z(s) = \left(\infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{R_L}{C_LR_Ls+1} \right)$	147
10.30	INVALID-ORDER-301	$Z(s) = \left(\infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, R_L + \frac{1}{C_Ls} \right)$	147
10.30	INVALID-ORDER-302	$Z(s) = \left(\infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, L_Ls + \frac{1}{C_Ls} \right)$	147

10.303INVALID-ORDER-303	$Z(s) = \left(\infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	148
10.304INVALID-ORDER-304	$Z(s) = \left(\infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$	148
10.305INVALID-ORDER-305	$Z(s) = \left(\infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	148
10.306INVALID-ORDER-306	$Z(s) = \left(\infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	148
10.307INVALID-ORDER-307	$Z(s) = \left(\infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{R_L \left(L_Ls + \frac{1}{C_Ls} \right)}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	148
10.308INVALID-ORDER-308	$Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4s + \frac{1}{R_4} + \frac{1}{L_4s}}, \infty, R_L \right)$	149
10.309INVALID-ORDER-309	$Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4s + \frac{1}{R_4} + \frac{1}{L_4s}}, \infty, \frac{1}{C_Ls} \right)$	149
10.310INVALID-ORDER-310	$Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4s + \frac{1}{R_4} + \frac{1}{L_4s}}, \infty, \frac{R_L}{C_LR_Ls+1} \right)$	149
10.311INVALID-ORDER-311	$Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4s + \frac{1}{R_4} + \frac{1}{L_4s}}, \infty, R_L + \frac{1}{C_Ls} \right)$	149
10.312INVALID-ORDER-312	$Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4s + \frac{1}{R_4} + \frac{1}{L_4s}}, \infty, L_Ls + \frac{1}{C_Ls} \right)$	149
10.313INVALID-ORDER-313	$Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4s + \frac{1}{R_4} + \frac{1}{L_4s}}, \infty, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	150
10.314INVALID-ORDER-314	$Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4s + \frac{1}{R_4} + \frac{1}{L_4s}}, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$	150
10.315INVALID-ORDER-315	$Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4s + \frac{1}{R_4} + \frac{1}{L_4s}}, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	150
10.316INVALID-ORDER-316	$Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4s + \frac{1}{R_4} + \frac{1}{L_4s}}, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	150
10.317INVALID-ORDER-317	$Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4s + \frac{1}{R_4} + \frac{1}{L_4s}}, \infty, \frac{R_L \left(L_Ls + \frac{1}{C_Ls} \right)}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	150
10.318INVALID-ORDER-318	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, \infty, R_L \right)$	151
10.319INVALID-ORDER-319	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, \infty, \frac{1}{C_Ls} \right)$	151
10.320INVALID-ORDER-320	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, \infty, \frac{R_L}{C_LR_Ls+1} \right)$	151
10.321INVALID-ORDER-321	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, \infty, R_L + \frac{1}{C_Ls} \right)$	151
10.322INVALID-ORDER-322	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, \infty, L_Ls + \frac{1}{C_Ls} \right)$	151

10.323INVALID-ORDER-323	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	151
10.324INVALID-ORDER-324	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	152
10.325INVALID-ORDER-325	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	152
10.326INVALID-ORDER-326	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	152
10.327INVALID-ORDER-327	$Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	152
10.328INVALID-ORDER-328	$Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, R_L \right)$	152
10.329INVALID-ORDER-329	$Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, \frac{1}{C_L s} \right)$	153
10.330INVALID-ORDER-330	$Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	153
10.331INVALID-ORDER-331	$Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, R_L + \frac{1}{C_L s} \right)$	153
10.332INVALID-ORDER-332	$Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, L_L s + \frac{1}{C_L s} \right)$	153
10.333INVALID-ORDER-333	$Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	153
10.334INVALID-ORDER-334	$Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	154
10.335INVALID-ORDER-335	$Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	154
10.336INVALID-ORDER-336	$Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	154
10.337INVALID-ORDER-337	$Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	154
10.338INVALID-ORDER-338	$Z(s) = (\infty, \infty, \infty, \infty, R_4, R_L)$	154
10.339INVALID-ORDER-339	$Z(s) = \left(\infty, \infty, \infty, \infty, R_4, \frac{1}{C_L s} \right)$	155
10.340INVALID-ORDER-340	$Z(s) = \left(\infty, \infty, \infty, \infty, R_4, \frac{R_L}{C_L R_L s + 1} \right)$	155
10.341INVALID-ORDER-341	$Z(s) = \left(\infty, \infty, \infty, \infty, R_4, R_L + \frac{1}{C_L s} \right)$	155
10.342INVALID-ORDER-342	$Z(s) = \left(\infty, \infty, \infty, \infty, R_4, L_L s + \frac{1}{C_L s} \right)$	155

10.343	INVALID-ORDER-343	$Z(s) = \left(\infty, \infty, \infty, \infty, R_4, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	155
10.344	INVALID-ORDER-344	$Z(s) = \left(\infty, \infty, \infty, \infty, R_4, L_L s + R_L + \frac{1}{C_L s} \right)$	155
10.345	INVALID-ORDER-345	$Z(s) = \left(\infty, \infty, \infty, \infty, R_4, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	156
10.346	INVALID-ORDER-346	$Z(s) = \left(\infty, \infty, \infty, \infty, R_4, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	156
10.347	INVALID-ORDER-347	$Z(s) = \left(\infty, \infty, \infty, \infty, R_4, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	156
10.348	INVALID-ORDER-348	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s}, R_L \right)$	156
10.349	INVALID-ORDER-349	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s}, L_L s + \frac{1}{C_L s} \right)$	156
10.350	INVALID-ORDER-350	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	157
10.351	INVALID-ORDER-351	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	157
10.352	INVALID-ORDER-352	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	157
10.353	INVALID-ORDER-353	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	157
10.354	INVALID-ORDER-354	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	157
10.355	INVALID-ORDER-355	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_L s} \right)$	158
10.356	INVALID-ORDER-356	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_L + \frac{1}{C_L s} \right)$	158
10.357	INVALID-ORDER-357	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_L s + \frac{1}{C_L s} \right)$	158
10.358	INVALID-ORDER-358	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	158
10.359	INVALID-ORDER-359	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$	158
10.360	INVALID-ORDER-360	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	158
10.361	INVALID-ORDER-361	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	159
10.362	INVALID-ORDER-362	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	159
10.363	INVALID-ORDER-363	$Z(s) = \left(\infty, \infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_L + \frac{1}{C_L s} \right)$	159
10.364	INVALID-ORDER-364	$Z(s) = \left(\infty, \infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_L s + \frac{1}{C_L s} \right)$	159

10.365	INVALID-ORDER-365	$Z(s) = \left(\infty, \infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	159
10.366	INVALID-ORDER-366	$Z(s) = \left(\infty, \infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	160
10.367	INVALID-ORDER-367	$Z(s) = \left(\infty, \infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	160
10.368	INVALID-ORDER-368	$Z(s) = \left(\infty, \infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	160
10.369	INVALID-ORDER-369	$Z(s) = \left(\infty, \infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	160
10.370	INVALID-ORDER-370	$Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_L s} \right)$	160
10.371	INVALID-ORDER-371	$Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_L}{C_L R_L s + 1} \right)$	161
10.372	INVALID-ORDER-372	$Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_L + \frac{1}{C_L s} \right)$	161
10.373	INVALID-ORDER-373	$Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_L s + \frac{1}{C_L s} \right)$	161
10.374	INVALID-ORDER-374	$Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	161
10.375	INVALID-ORDER-375	$Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	161
10.376	INVALID-ORDER-376	$Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	161
10.377	INVALID-ORDER-377	$Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	162
10.378	INVALID-ORDER-378	$Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	162
10.379	INVALID-ORDER-379	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_L \right)$	162
10.380	INVALID-ORDER-380	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_L s} \right)$	162
10.381	INVALID-ORDER-381	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_L}{C_L R_L s + 1} \right)$	162
10.382	INVALID-ORDER-382	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_L + \frac{1}{C_L s} \right)$	163
10.383	INVALID-ORDER-383	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_L s + \frac{1}{C_L s} \right)$	163
10.384	INVALID-ORDER-384	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	163
10.385	INVALID-ORDER-385	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$	163
10.386	INVALID-ORDER-386	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	163

10.38	INVALID-ORDER-387	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	164
10.38	INVALID-ORDER-388	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	164
10.38	INVALID-ORDER-389	$Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_L \right)$	164
10.39	INVALID-ORDER-390	$Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_L s} \right)$	164
10.39	INVALID-ORDER-391	$Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_L}{C_L R_L s + 1} \right)$	164
10.39	INVALID-ORDER-392	$Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_L + \frac{1}{C_L s} \right)$	164
10.39	INVALID-ORDER-393	$Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_L s + \frac{1}{C_L s} \right)$	165
10.39	INVALID-ORDER-394	$Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	165
10.39	INVALID-ORDER-395	$Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	165
10.39	INVALID-ORDER-396	$Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	165
10.39	INVALID-ORDER-397	$Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	165
10.39	INVALID-ORDER-398	$Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	166
10.39	INVALID-ORDER-399	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, R_L \right)$	166
10.40	INVALID-ORDER-400	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, \frac{1}{C_L s} \right)$	166
10.40	INVALID-ORDER-401	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, \frac{R_L}{C_L R_L s + 1} \right)$	166
10.40	INVALID-ORDER-402	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, R_L + \frac{1}{C_L s} \right)$	166
10.40	INVALID-ORDER-403	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, L_L s + \frac{1}{C_L s} \right)$	167
10.40	INVALID-ORDER-404	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	167
10.40	INVALID-ORDER-405	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$	167
10.40	INVALID-ORDER-406	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	167

10.40	INVALID-ORDER-407	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	167
10.40	INVALID-ORDER-408	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	168
10.40	INVALID-ORDER-409	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_L \right)$	168
10.41	INVALID-ORDER-410	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{1}{C_L s} \right)$	168
10.41	INVALID-ORDER-411	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{R_L}{C_L R_L s + 1} \right)$	168
10.41	INVALID-ORDER-412	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_L + \frac{1}{C_L s} \right)$	168
10.41	INVALID-ORDER-413	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_L s + \frac{1}{C_L s} \right)$	168
10.41	INVALID-ORDER-414	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	169
10.41	INVALID-ORDER-415	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_L s + R_L + \frac{1}{C_L s} \right)$	169
10.41	INVALID-ORDER-416	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	169
10.41	INVALID-ORDER-417	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	169
10.41	INVALID-ORDER-418	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	169
10.41	INVALID-ORDER-419	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 (L_4 s + \frac{1}{C_4 s})}{L_4 s + R_4 + \frac{1}{C_4 s}}, R_L \right)$	170
10.42	INVALID-ORDER-420	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 (L_4 s + \frac{1}{C_4 s})}{L_4 s + R_4 + \frac{1}{C_4 s}}, \frac{1}{C_L s} \right)$	170
10.42	INVALID-ORDER-421	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 (L_4 s + \frac{1}{C_4 s})}{L_4 s + R_4 + \frac{1}{C_4 s}}, \frac{R_L}{C_L R_L s + 1} \right)$	170
10.42	INVALID-ORDER-422	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 (L_4 s + \frac{1}{C_4 s})}{L_4 s + R_4 + \frac{1}{C_4 s}}, R_L + \frac{1}{C_L s} \right)$	170
10.42	INVALID-ORDER-423	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 (L_4 s + \frac{1}{C_4 s})}{L_4 s + R_4 + \frac{1}{C_4 s}}, L_L s + \frac{1}{C_L s} \right)$	170
10.42	INVALID-ORDER-424	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 (L_4 s + \frac{1}{C_4 s})}{L_4 s + R_4 + \frac{1}{C_4 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	171
10.42	INVALID-ORDER-425	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 (L_4 s + \frac{1}{C_4 s})}{L_4 s + R_4 + \frac{1}{C_4 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$	171

10.426INVALID-ORDER-426	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	171
10.427INVALID-ORDER-427	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	171
10.428INVALID-ORDER-428	$Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	171
10.429INVALID-ORDER-429	$Z(s) = (R_1, R_2, \infty, \infty, \infty, R_L)$	172
10.430INVALID-ORDER-430	$Z(s) = \left(R_1, R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	172
10.431INVALID-ORDER-431	$Z(s) = \left(R_1, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	172
10.432INVALID-ORDER-432	$Z(s) = \left(R_1, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	172
10.433INVALID-ORDER-433	$Z(s) = \left(R_1, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	172
10.434INVALID-ORDER-434	$Z(s) = \left(R_1, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	172
10.435INVALID-ORDER-435	$Z(s) = \left(R_1, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	173
10.436INVALID-ORDER-436	$Z(s) = \left(R_1, R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	173
10.437INVALID-ORDER-437	$Z(s) = \left(R_1, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	173
10.438INVALID-ORDER-438	$Z(s) = \left(R_1, R_2, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	173
10.439INVALID-ORDER-439	$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	173
10.440INVALID-ORDER-440	$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	174
10.441INVALID-ORDER-441	$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	174
10.442INVALID-ORDER-442	$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	174
10.443INVALID-ORDER-443	$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	174
10.444INVALID-ORDER-444	$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	174
10.445INVALID-ORDER-445	$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	175
10.446INVALID-ORDER-446	$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	175
10.447INVALID-ORDER-447	$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	175

10.448INVALID-ORDER-448	$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L \right)$	175
10.449INVALID-ORDER-449	$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	175
10.450INVALID-ORDER-450	$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	176
10.451INVALID-ORDER-451	$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	176
10.452INVALID-ORDER-452	$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	176
10.453INVALID-ORDER-453	$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	176
10.454INVALID-ORDER-454	$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	176
10.455INVALID-ORDER-455	$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	177
10.456INVALID-ORDER-456	$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	177
10.457INVALID-ORDER-457	$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	177
10.458INVALID-ORDER-458	$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	177
10.459INVALID-ORDER-459	$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	177
10.460INVALID-ORDER-460	$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	178
10.461INVALID-ORDER-461	$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	178
10.462INVALID-ORDER-462	$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	178
10.463INVALID-ORDER-463	$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	178
10.464INVALID-ORDER-464	$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	178
10.465INVALID-ORDER-465	$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	179
10.466INVALID-ORDER-466	$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	179
10.467INVALID-ORDER-467	$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	179
10.468INVALID-ORDER-468	$Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	179
10.469INVALID-ORDER-469	$Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	179

10.470INVALID-ORDER-470	$Z(s) = \left(R_1, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$	180
10.471INVALID-ORDER-471	$Z(s) = \left(R_1, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls} \right)$	180
10.472INVALID-ORDER-472	$Z(s) = \left(R_1, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls} \right)$	180
10.473INVALID-ORDER-473	$Z(s) = \left(R_1, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	180
10.474INVALID-ORDER-474	$Z(s) = \left(R_1, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$	180
10.475INVALID-ORDER-475	$Z(s) = \left(R_1, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	181
10.476INVALID-ORDER-476	$Z(s) = \left(R_1, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	181
10.477INVALID-ORDER-477	$Z(s) = \left(R_1, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	181
10.478INVALID-ORDER-478	$Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, R_L \right)$	181
10.479INVALID-ORDER-479	$Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls} \right)$	181
10.480INVALID-ORDER-480	$Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$	182
10.481INVALID-ORDER-481	$Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls} \right)$	182
10.482INVALID-ORDER-482	$Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls} \right)$	182
10.483INVALID-ORDER-483	$Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	182
10.484INVALID-ORDER-484	$Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$	182
10.485INVALID-ORDER-485	$Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	183
10.486INVALID-ORDER-486	$Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	183
10.487INVALID-ORDER-487	$Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	183
10.488INVALID-ORDER-488	$Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, R_L \right)$	183
10.489INVALID-ORDER-489	$Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{1}{C_Ls} \right)$	183
10.490INVALID-ORDER-490	$Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$	184
10.491INVALID-ORDER-491	$Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_Ls} \right)$	184

10.492INVALID-ORDER-492	$Z(s) = \left(R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	184
10.493INVALID-ORDER-493	$Z(s) = \left(R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	184
10.494INVALID-ORDER-494	$Z(s) = \left(R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	184
10.495INVALID-ORDER-495	$Z(s) = \left(R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	185
10.496INVALID-ORDER-496	$Z(s) = \left(R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	185
10.497INVALID-ORDER-497	$Z(s) = \left(R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	185
10.498INVALID-ORDER-498	$Z(s) = \left(R_1, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L \right)$	185
10.499INVALID-ORDER-499	$Z(s) = \left(R_1, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	185
10.500INVALID-ORDER-500	$Z(s) = \left(R_1, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	186
10.501INVALID-ORDER-501	$Z(s) = \left(R_1, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	186
10.502INVALID-ORDER-502	$Z(s) = \left(R_1, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	186
10.503INVALID-ORDER-503	$Z(s) = \left(R_1, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	186
10.504INVALID-ORDER-504	$Z(s) = \left(R_1, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	186
10.505INVALID-ORDER-505	$Z(s) = \left(R_1, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	187
10.506INVALID-ORDER-506	$Z(s) = \left(R_1, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	187
10.507INVALID-ORDER-507	$Z(s) = \left(R_1, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	187
10.508INVALID-ORDER-508	$Z(s) = (L_1 s, R_2, \infty, \infty, \infty, R_L)$	187
10.509INVALID-ORDER-509	$Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	187
10.510INVALID-ORDER-510	$Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	188
10.511INVALID-ORDER-511	$Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	188

10.512INVALID-ORDER-512	$Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	188
10.513INVALID-ORDER-513	$Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	188
10.514INVALID-ORDER-514	$Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	188
10.515INVALID-ORDER-515	$Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	189
10.516INVALID-ORDER-516	$Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	189
10.517INVALID-ORDER-517	$Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	189
10.518INVALID-ORDER-518	$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	189
10.519INVALID-ORDER-519	$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	189
10.520INVALID-ORDER-520	$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	190
10.521INVALID-ORDER-521	$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	190
10.522INVALID-ORDER-522	$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	190
10.523INVALID-ORDER-523	$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	190
10.524INVALID-ORDER-524	$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	190
10.525INVALID-ORDER-525	$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	191
10.526INVALID-ORDER-526	$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	191
10.527INVALID-ORDER-527	$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	191
10.528INVALID-ORDER-528	$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L \right)$	191
10.529INVALID-ORDER-529	$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	191
10.530INVALID-ORDER-530	$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	192
10.531INVALID-ORDER-531	$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	192
10.532INVALID-ORDER-532	$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	192
10.533INVALID-ORDER-533	$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	192

10.531INVALID-ORDER-534	$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	192
10.535INVALID-ORDER-535	$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	193
10.536INVALID-ORDER-536	$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	193
10.537INVALID-ORDER-537	$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	193
10.538INVALID-ORDER-538	$Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	193
10.539INVALID-ORDER-539	$Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	193
10.540INVALID-ORDER-540	$Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	194
10.541INVALID-ORDER-541	$Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	194
10.542INVALID-ORDER-542	$Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	194
10.543INVALID-ORDER-543	$Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	194
10.544INVALID-ORDER-544	$Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	194
10.545INVALID-ORDER-545	$Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	194
10.546INVALID-ORDER-546	$Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	195
10.547INVALID-ORDER-547	$Z(s) = \left(L_1 s, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	195
10.548INVALID-ORDER-548	$Z(s) = \left(L_1 s, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	195
10.549INVALID-ORDER-549	$Z(s) = \left(L_1 s, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	195
10.550INVALID-ORDER-550	$Z(s) = \left(L_1 s, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	195
10.551INVALID-ORDER-551	$Z(s) = \left(L_1 s, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	195
10.552INVALID-ORDER-552	$Z(s) = \left(L_1 s, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	196
10.553INVALID-ORDER-553	$Z(s) = \left(L_1 s, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	196
10.554INVALID-ORDER-554	$Z(s) = \left(L_1 s, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	196
10.555INVALID-ORDER-555	$Z(s) = \left(L_1 s, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	196

10.556INVALID-ORDER-556	$Z(s) = \left(L_1 s, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	196
10.557INVALID-ORDER-557	$Z(s) = \left(L_1 s, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	197
10.558INVALID-ORDER-558	$Z(s) = \left(L_1 s, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	197
10.559INVALID-ORDER-559	$Z(s) = \left(L_1 s, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	197
10.560INVALID-ORDER-560	$Z(s) = \left(L_1 s, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	197
10.561INVALID-ORDER-561	$Z(s) = \left(L_1 s, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	197
10.562INVALID-ORDER-562	$Z(s) = \left(L_1 s, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	197
10.563INVALID-ORDER-563	$Z(s) = \left(L_1 s, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	198
10.564INVALID-ORDER-564	$Z(s) = \left(L_1 s, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	198
10.565INVALID-ORDER-565	$Z(s) = \left(L_1 s, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	198
10.566INVALID-ORDER-566	$Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L \right)$	198
10.567INVALID-ORDER-567	$Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	198
10.568INVALID-ORDER-568	$Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	199
10.569INVALID-ORDER-569	$Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	199
10.570INVALID-ORDER-570	$Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	199
10.571INVALID-ORDER-571	$Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	199
10.572INVALID-ORDER-572	$Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	199
10.573INVALID-ORDER-573	$Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	199
10.574INVALID-ORDER-574	$Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	200
10.575INVALID-ORDER-575	$Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	200
10.576INVALID-ORDER-576	$Z(s) = \left(L_1 s, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L \right)$	200
10.577INVALID-ORDER-577	$Z(s) = \left(L_1 s, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	200

10.578INVALID-ORDER-578	$Z(s) = \left(L_1 s, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	200
10.579INVALID-ORDER-579	$Z(s) = \left(L_1 s, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	201
10.580INVALID-ORDER-580	$Z(s) = \left(L_1 s, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	201
10.581INVALID-ORDER-581	$Z(s) = \left(L_1 s, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	201
10.582INVALID-ORDER-582	$Z(s) = \left(L_1 s, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	201
10.583INVALID-ORDER-583	$Z(s) = \left(L_1 s, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	201
10.584INVALID-ORDER-584	$Z(s) = \left(L_1 s, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	202
10.585INVALID-ORDER-585	$Z(s) = \left(L_1 s, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	202
10.586INVALID-ORDER-586	$Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L \right)$	202
10.587INVALID-ORDER-587	$Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	202
10.588INVALID-ORDER-588	$Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	202
10.589INVALID-ORDER-589	$Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	203
10.590INVALID-ORDER-590	$Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	203
10.591INVALID-ORDER-591	$Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	203
10.592INVALID-ORDER-592	$Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	203
10.593INVALID-ORDER-593	$Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	203
10.594INVALID-ORDER-594	$Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	204
10.595INVALID-ORDER-595	$Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	204
10.596INVALID-ORDER-596	$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	204
10.597INVALID-ORDER-597	$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	204

10.59 8 INVALID-ORDER-598	$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	204
10.59 9 INVALID-ORDER-599	$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	205
10.60 0 INVALID-ORDER-600	$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	205
10.60 1 INVALID-ORDER-601	$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	205
10.60 2 INVALID-ORDER-602	$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	205
10.60 3 INVALID-ORDER-603	$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	205
10.60 4 INVALID-ORDER-604	$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	206
10.60 5 INVALID-ORDER-605	$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	206
10.60 6 INVALID-ORDER-606	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L \right)$	206
10.60 7 INVALID-ORDER-607	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	206
10.60 8 INVALID-ORDER-608	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	206
10.60 9 INVALID-ORDER-609	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	207
10.61 0 INVALID-ORDER-610	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	207
10.61 1 INVALID-ORDER-611	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	207
10.61 2 INVALID-ORDER-612	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	207
10.61 3 INVALID-ORDER-613	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	207
10.61 4 INVALID-ORDER-614	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	208
10.61 5 INVALID-ORDER-615	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	208
10.61 6 INVALID-ORDER-616	$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	208
10.61 7 INVALID-ORDER-617	$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	208
10.61 8 INVALID-ORDER-618	$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	208
10.61 9 INVALID-ORDER-619	$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	209

10.620INVALID-ORDER-620	$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	209
10.621INVALID-ORDER-621	$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	209
10.622INVALID-ORDER-622	$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	209
10.623INVALID-ORDER-623	$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	209
10.624INVALID-ORDER-624	$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	210
10.625INVALID-ORDER-625	$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	210
10.626INVALID-ORDER-626	$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	210
10.627INVALID-ORDER-627	$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	210
10.628INVALID-ORDER-628	$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	210
10.629INVALID-ORDER-629	$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	211
10.630INVALID-ORDER-630	$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	211
10.631INVALID-ORDER-631	$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	211
10.632INVALID-ORDER-632	$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	211
10.633INVALID-ORDER-633	$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	211
10.634INVALID-ORDER-634	$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	212
10.635INVALID-ORDER-635	$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	212
10.636INVALID-ORDER-636	$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	212
10.637INVALID-ORDER-637	$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	212
10.638INVALID-ORDER-638	$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	212
10.639INVALID-ORDER-639	$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	213
10.640INVALID-ORDER-640	$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	213
10.641INVALID-ORDER-641	$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	213

10.642	INVALID-ORDER-642	$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	213
10.643	INVALID-ORDER-643	$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	213
10.644	INVALID-ORDER-644	$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	214
10.645	INVALID-ORDER-645	$Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L \right)$	214
10.646	INVALID-ORDER-646	$Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	214
10.647	INVALID-ORDER-647	$Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	214
10.648	INVALID-ORDER-648	$Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	214
10.649	INVALID-ORDER-649	$Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	215
10.650	INVALID-ORDER-650	$Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	215
10.651	INVALID-ORDER-651	$Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	215
10.652	INVALID-ORDER-652	$Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	215
10.653	INVALID-ORDER-653	$Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	215
10.654	INVALID-ORDER-654	$Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	216
10.655	INVALID-ORDER-655	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L \right)$	216
10.656	INVALID-ORDER-656	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	216
10.657	INVALID-ORDER-657	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	216
10.658	INVALID-ORDER-658	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	216
10.659	INVALID-ORDER-659	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	217
10.660	INVALID-ORDER-660	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	217
10.661	INVALID-ORDER-661	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	217

10.662INVALID-ORDER-662	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	217
10.663INVALID-ORDER-663	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	217
10.664INVALID-ORDER-664	$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	218
10.665INVALID-ORDER-665	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, R_L \right)$	218
10.666INVALID-ORDER-666	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	218
10.667INVALID-ORDER-667	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	218
10.668INVALID-ORDER-668	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	218
10.669INVALID-ORDER-669	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	219
10.670INVALID-ORDER-670	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	219
10.671INVALID-ORDER-671	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	219
10.672INVALID-ORDER-672	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	219
10.673INVALID-ORDER-673	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	219
10.674INVALID-ORDER-674	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	220
10.675INVALID-ORDER-675	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	220
10.676INVALID-ORDER-676	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	220
10.677INVALID-ORDER-677	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	220
10.678INVALID-ORDER-678	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	220
10.679INVALID-ORDER-679	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	221
10.680INVALID-ORDER-680	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	221
10.681INVALID-ORDER-681	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	221
10.682INVALID-ORDER-682	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	221
10.683INVALID-ORDER-683	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	221

10.684INVALID-ORDER-684	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	222
10.685INVALID-ORDER-685	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L \right)$	222
10.686INVALID-ORDER-686	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	222
10.687INVALID-ORDER-687	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	222
10.688INVALID-ORDER-688	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	222
10.689INVALID-ORDER-689	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	223
10.690INVALID-ORDER-690	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	223
10.691INVALID-ORDER-691	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	223
10.692INVALID-ORDER-692	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	223
10.693INVALID-ORDER-693	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	223
10.694INVALID-ORDER-694	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	224
10.695INVALID-ORDER-695	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	224
10.696INVALID-ORDER-696	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	224
10.697INVALID-ORDER-697	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	224
10.698INVALID-ORDER-698	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	224
10.699INVALID-ORDER-699	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	225
10.700INVALID-ORDER-700	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	225
10.701INVALID-ORDER-701	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	225
10.702INVALID-ORDER-702	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	225
10.703INVALID-ORDER-703	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	225
10.704INVALID-ORDER-704	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	226
10.705INVALID-ORDER-705	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	226

10.706INVALID-ORDER-706	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	226
10.707INVALID-ORDER-707	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	226
10.708INVALID-ORDER-708	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	226
10.709INVALID-ORDER-709	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	227
10.710INVALID-ORDER-710	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	227
10.711INVALID-ORDER-711	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	227
10.712INVALID-ORDER-712	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	227
10.713INVALID-ORDER-713	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	227
10.714INVALID-ORDER-714	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	228
10.715INVALID-ORDER-715	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	228
10.716INVALID-ORDER-716	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	228
10.717INVALID-ORDER-717	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	228
10.718INVALID-ORDER-718	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	228
10.719INVALID-ORDER-719	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	229
10.720INVALID-ORDER-720	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	229
10.721INVALID-ORDER-721	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	229
10.722INVALID-ORDER-722	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	229
10.723INVALID-ORDER-723	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	229
10.724INVALID-ORDER-724	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	230
10.725INVALID-ORDER-725	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L \right)$	230
10.726INVALID-ORDER-726	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	230
10.727INVALID-ORDER-727	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	230

10.728INVALID-ORDER-728	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	230
10.729INVALID-ORDER-729	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	231
10.730INVALID-ORDER-730	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	231
10.731INVALID-ORDER-731	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	231
10.732INVALID-ORDER-732	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	231
10.733INVALID-ORDER-733	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	231
10.734INVALID-ORDER-734	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	232
10.735INVALID-ORDER-735	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	232
10.736INVALID-ORDER-736	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	232
10.737INVALID-ORDER-737	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	232
10.738INVALID-ORDER-738	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	232
10.739INVALID-ORDER-739	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	233
10.740INVALID-ORDER-740	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	233
10.741INVALID-ORDER-741	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	233
10.742INVALID-ORDER-742	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	233
10.743INVALID-ORDER-743	$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	233
10.744INVALID-ORDER-744	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L \right)$	234
10.745INVALID-ORDER-745	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	234
10.746INVALID-ORDER-746	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	234
10.747INVALID-ORDER-747	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	234

10.748INVALID-ORDER-748	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	234
10.749INVALID-ORDER-749	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	234
10.750INVALID-ORDER-750	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	235
10.751INVALID-ORDER-751	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	235
10.752INVALID-ORDER-752	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	235
10.753INVALID-ORDER-753	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	235
10.754INVALID-ORDER-754	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	235
10.755INVALID-ORDER-755	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	236
10.756INVALID-ORDER-756	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	236
10.757INVALID-ORDER-757	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	236
10.758INVALID-ORDER-758	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	236
10.759INVALID-ORDER-759	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	236
10.760INVALID-ORDER-760	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	236
10.761INVALID-ORDER-761	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	237
10.762INVALID-ORDER-762	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	237
10.763INVALID-ORDER-763	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L \right)$	237
10.764INVALID-ORDER-764	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	237
10.765INVALID-ORDER-765	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	237
10.766INVALID-ORDER-766	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	237
10.767INVALID-ORDER-767	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	238
10.768INVALID-ORDER-768	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	238
10.769INVALID-ORDER-769	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	238

10.770INVALID-ORDER-770	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	238
10.771INVALID-ORDER-771	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	238
10.772INVALID-ORDER-772	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	239
10.773INVALID-ORDER-773	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	239
10.774INVALID-ORDER-774	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	239
10.775INVALID-ORDER-775	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	239
10.776INVALID-ORDER-776	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	239
10.777INVALID-ORDER-777	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	240
10.778INVALID-ORDER-778	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	240
10.779INVALID-ORDER-779	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	240
10.780INVALID-ORDER-780	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	240
10.781INVALID-ORDER-781	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	240
10.782INVALID-ORDER-782	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	241
10.783INVALID-ORDER-783	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	241
10.784INVALID-ORDER-784	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	241
10.785INVALID-ORDER-785	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	241
10.786INVALID-ORDER-786	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	241
10.787INVALID-ORDER-787	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	241
10.788INVALID-ORDER-788	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	242
10.789INVALID-ORDER-789	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	242
10.790INVALID-ORDER-790	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	242
10.791INVALID-ORDER-791	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	242

10.792INVALID-ORDER-792	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	242
10.793INVALID-ORDER-793	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	243
10.794INVALID-ORDER-794	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	243
10.795INVALID-ORDER-795	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	243
10.796INVALID-ORDER-796	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	243
10.797INVALID-ORDER-797	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	243
10.798INVALID-ORDER-798	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	243
10.799INVALID-ORDER-799	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	244
10.800INVALID-ORDER-800	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	244
10.801INVALID-ORDER-801	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	244
10.802INVALID-ORDER-802	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	244
10.803INVALID-ORDER-803	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L \right)$	244
10.804INVALID-ORDER-804	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	245
10.805INVALID-ORDER-805	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	245
10.806INVALID-ORDER-806	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	245
10.807INVALID-ORDER-807	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	245
10.808INVALID-ORDER-808	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	245
10.809INVALID-ORDER-809	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	245
10.810INVALID-ORDER-810	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	246
10.811INVALID-ORDER-811	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	246
10.812INVALID-ORDER-812	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	246
10.813INVALID-ORDER-813	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L \right)$	246

10.81 INVALID-ORDER-814	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	246
10.81 INVALID-ORDER-815	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	247
10.81 INVALID-ORDER-816	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	247
10.81 INVALID-ORDER-817	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	247
10.81 INVALID-ORDER-818	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	247
10.81 INVALID-ORDER-819	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	247
10.82 INVALID-ORDER-820	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	248
10.82 INVALID-ORDER-821	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	248
10.82 INVALID-ORDER-822	$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	248
10.82 INVALID-ORDER-823	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L \right)$	248
10.82 INVALID-ORDER-824	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	248
10.82 INVALID-ORDER-825	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	249
10.82 INVALID-ORDER-826	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	249
10.82 INVALID-ORDER-827	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	249
10.82 INVALID-ORDER-828	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	249
10.82 INVALID-ORDER-829	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	249
10.83 INVALID-ORDER-830	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	250
10.83 INVALID-ORDER-831	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	250
10.83 INVALID-ORDER-832	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	250
10.83 INVALID-ORDER-833	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	250

10.831INVALID-ORDER-834	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	250
10.835INVALID-ORDER-835	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	251
10.836INVALID-ORDER-836	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	251
10.837INVALID-ORDER-837	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	251
10.838INVALID-ORDER-838	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	251
10.839INVALID-ORDER-839	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	251
10.840INVALID-ORDER-840	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	252
10.841INVALID-ORDER-841	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	252
10.842INVALID-ORDER-842	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L \right)$	252
10.843INVALID-ORDER-843	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	252
10.844INVALID-ORDER-844	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	252
10.845INVALID-ORDER-845	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	253
10.846INVALID-ORDER-846	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	253
10.847INVALID-ORDER-847	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	253
10.848INVALID-ORDER-848	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	253
10.849INVALID-ORDER-849	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	253
10.850INVALID-ORDER-850	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	254
10.851INVALID-ORDER-851	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	254
10.852INVALID-ORDER-852	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	254
10.853INVALID-ORDER-853	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	254
10.854INVALID-ORDER-854	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	254
10.855INVALID-ORDER-855	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	255

10.856INVALID-ORDER-856	$Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls} \right)$	255
10.857INVALID-ORDER-857	$Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	255
10.858INVALID-ORDER-858	$Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$	255
10.859INVALID-ORDER-859	$Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	255
10.860INVALID-ORDER-860	$Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	256
10.861INVALID-ORDER-861	$Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L \left(L_Ls + \frac{1}{C_Ls} \right)}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	256
10.862INVALID-ORDER-862	$Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, R_L \right)$	256
10.863INVALID-ORDER-863	$Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls} \right)$	256
10.864INVALID-ORDER-864	$Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$	256
10.865INVALID-ORDER-865	$Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls} \right)$	257
10.866INVALID-ORDER-866	$Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls} \right)$	257
10.867INVALID-ORDER-867	$Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	257
10.868INVALID-ORDER-868	$Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$	257
10.869INVALID-ORDER-869	$Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	257
10.870INVALID-ORDER-870	$Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	258
10.871INVALID-ORDER-871	$Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L \left(L_Ls + \frac{1}{C_Ls} \right)}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	258
10.872INVALID-ORDER-872	$Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, R_L \right)$	258
10.873INVALID-ORDER-873	$Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls} \right)$	258
10.874INVALID-ORDER-874	$Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$	258
10.875INVALID-ORDER-875	$Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls} \right)$	259
10.876INVALID-ORDER-876	$Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls} \right)$	259
10.877INVALID-ORDER-877	$Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	259

10.87	INVALID-ORDER-878	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	259
10.87	INVALID-ORDER-879	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	259
10.88	INVALID-ORDER-880	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	260
10.88	INVALID-ORDER-881	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	260
10.88	INVALID-ORDER-882	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L \right)$	260
10.88	INVALID-ORDER-883	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	260
10.88	INVALID-ORDER-884	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	260
10.88	INVALID-ORDER-885	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	261
10.88	INVALID-ORDER-886	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	261
10.88	INVALID-ORDER-887	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	261
10.88	INVALID-ORDER-888	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	261
10.88	INVALID-ORDER-889	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	261
10.89	INVALID-ORDER-890	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	262
10.89	INVALID-ORDER-891	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	262
10.89	INVALID-ORDER-892	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L \right)$	262
10.89	INVALID-ORDER-893	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	262
10.89	INVALID-ORDER-894	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	262
10.89	INVALID-ORDER-895	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	263
10.89	INVALID-ORDER-896	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	263
10.89	INVALID-ORDER-897	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	263

10.89 INVALID-ORDER-898	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	263
10.89 INVALID-ORDER-899	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	263
10.90 INVALID-ORDER-900	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	264
10.90 INVALID-ORDER-901	$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	264
10.90 INVALID-ORDER-902	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, R_L \right)$	264
10.90 INVALID-ORDER-903	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	264
10.90 INVALID-ORDER-904	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	264
10.90 INVALID-ORDER-905	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	265
10.90 INVALID-ORDER-906	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	265
10.90 INVALID-ORDER-907	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	265
10.90 INVALID-ORDER-908	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	265
10.90 INVALID-ORDER-909	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	265
10.91 INVALID-ORDER-910	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	266
10.91 INVALID-ORDER-911	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	266
10.91 INVALID-ORDER-912	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	266
10.91 INVALID-ORDER-913	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	266
10.91 INVALID-ORDER-914	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	266
10.91 INVALID-ORDER-915	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	267
10.91 INVALID-ORDER-916	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	267
10.91 INVALID-ORDER-917	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	267
10.91 INVALID-ORDER-918	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	267

10.91 INVALID-ORDER-919	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	267
10.92 INVALID-ORDER-920	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	268
10.92 INVALID-ORDER-921	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	268
10.92 INVALID-ORDER-922	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L \right)$	268
10.92 INVALID-ORDER-923	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	268
10.92 INVALID-ORDER-924	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	268
10.92 INVALID-ORDER-925	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	269
10.92 INVALID-ORDER-926	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	269
10.92 INVALID-ORDER-927	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	269
10.92 INVALID-ORDER-928	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	269
10.92 INVALID-ORDER-929	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	269
10.93 INVALID-ORDER-930	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	270
10.93 INVALID-ORDER-931	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	270
10.93 INVALID-ORDER-932	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	270
10.93 INVALID-ORDER-933	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	270
10.93 INVALID-ORDER-934	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	270
10.93 INVALID-ORDER-935	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	271
10.93 INVALID-ORDER-936	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	271
10.93 INVALID-ORDER-937	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	271
10.93 INVALID-ORDER-938	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	271
10.93 INVALID-ORDER-939	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	271
10.94 INVALID-ORDER-940	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	272

10.94	INVALID-ORDER-941	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	272
10.94	INVALID-ORDER-942	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	272
10.94	INVALID-ORDER-943	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	272
10.94	INVALID-ORDER-944	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	272
10.94	INVALID-ORDER-945	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	273
10.94	INVALID-ORDER-946	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	273
10.94	INVALID-ORDER-947	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	273
10.94	INVALID-ORDER-948	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	273
10.94	INVALID-ORDER-949	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	273
10.95	INVALID-ORDER-950	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	274
10.95	INVALID-ORDER-951	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	274
10.95	INVALID-ORDER-952	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	274
10.95	INVALID-ORDER-953	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	274
10.95	INVALID-ORDER-954	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	274
10.95	INVALID-ORDER-955	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	275
10.95	INVALID-ORDER-956	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	275
10.95	INVALID-ORDER-957	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	275
10.95	INVALID-ORDER-958	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	275
10.95	INVALID-ORDER-959	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	275
10.96	INVALID-ORDER-960	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	276
10.96	INVALID-ORDER-961	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L \right)$	276
10.96	INVALID-ORDER-962	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	276

10.963INVALID-ORDER-963	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	276
10.964INVALID-ORDER-964	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	276
10.965INVALID-ORDER-965	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	277
10.966INVALID-ORDER-966	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	277
10.967INVALID-ORDER-967	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	277
10.968INVALID-ORDER-968	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	277
10.969INVALID-ORDER-969	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	277
10.970INVALID-ORDER-970	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	278
10.971INVALID-ORDER-971	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L \right)$	278
10.972INVALID-ORDER-972	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	278
10.973INVALID-ORDER-973	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	278
10.974INVALID-ORDER-974	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	278
10.975INVALID-ORDER-975	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	279
10.976INVALID-ORDER-976	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	279
10.977INVALID-ORDER-977	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	279
10.978INVALID-ORDER-978	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	279
10.979INVALID-ORDER-979	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	279
10.980INVALID-ORDER-980	$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	280
10.981INVALID-ORDER-981	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L \right)$	280

10.982INVALID-ORDER-982	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	280
10.983INVALID-ORDER-983	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	280
10.984INVALID-ORDER-984	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	280
10.985INVALID-ORDER-985	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	281
10.986INVALID-ORDER-986	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	281
10.987INVALID-ORDER-987	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	281
10.988INVALID-ORDER-988	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	281
10.989INVALID-ORDER-989	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	281
10.990INVALID-ORDER-990	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	282
10.991INVALID-ORDER-991	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	282
10.992INVALID-ORDER-992	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	282
10.993INVALID-ORDER-993	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	282
10.994INVALID-ORDER-994	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	282
10.995INVALID-ORDER-995	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	283
10.996INVALID-ORDER-996	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	283
10.997INVALID-ORDER-997	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	283
10.998INVALID-ORDER-998	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	283
10.999INVALID-ORDER-999	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	283
10.1000INVALID-ORDER-1000	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	284
10.1001INVALID-ORDER-1001	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L \right)$	284
10.1002INVALID-ORDER-1002	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	284
10.1003INVALID-ORDER-1003	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	284

10.1001INVALID-ORDER-1004	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	284
10.1001INVALID-ORDER-1005	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	285
10.1001INVALID-ORDER-1006	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	285
10.1001INVALID-ORDER-1007	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	285
10.1001INVALID-ORDER-1008	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	285
10.1001INVALID-ORDER-1009	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	285
10.1001INVALID-ORDER-1010	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	286
10.1001INVALID-ORDER-1011	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	286
10.1001INVALID-ORDER-1012	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	286
10.1001INVALID-ORDER-1013	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	286
10.1001INVALID-ORDER-1014	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	286
10.1001INVALID-ORDER-1015	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	287
10.1001INVALID-ORDER-1016	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	287
10.1001INVALID-ORDER-1017	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	287
10.1001INVALID-ORDER-1018	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	287
10.1001INVALID-ORDER-1019	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	287
10.1001INVALID-ORDER-1020	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	288
10.1001INVALID-ORDER-1021	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$	288
10.1001INVALID-ORDER-1022	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$	288
10.1001INVALID-ORDER-1023	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	288
10.1001INVALID-ORDER-1024	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	288
10.1001INVALID-ORDER-1025	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	289

10.1026	INVALID-ORDER-1026	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	289
10.1027	INVALID-ORDER-1027	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	289
10.1028	INVALID-ORDER-1028	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	289
10.1029	INVALID-ORDER-1029	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	289
10.1030	INVALID-ORDER-1030	$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	290

1 Examined $H(z)$ for TIA simple Z1 Z4 ZL: $\frac{Z_1 Z_4 Z_L g_m}{Z_1 Z_4 g_m + 2Z_1 Z_L g_m + Z_4 + 2Z_L}$

$$H(z) = \frac{Z_1 Z_4 Z_L g_m}{Z_1 Z_4 g_m + 2Z_1 Z_L g_m + Z_4 + 2Z_L}$$

2 HP

3 BP

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

$$H(s) = \frac{L_L R_1 R_4 g_m s}{(R_1 g_m + 1)(C_L L_L R_4 s^2 + 2L_L s + R_4)}$$

Parameters:

$$Q: \frac{C_L R_4 \sqrt{\frac{1}{C_L L_L}}}{2}$$

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

$$\text{bandwidth: } \frac{2}{C_L R_4}$$

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

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

$$\text{K-BP: } \frac{R_1 R_4 g_m}{2(R_1 g_m + 1)}$$

$$\text{QZ: } 0$$

$$\text{WZ: None}$$

3.2 BP-2 $Z(s) = \left(R_1, \infty, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_1 R_4 R_L g_m s}{(R_1 g_m + 1)(C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

Parameters:

Q: $\frac{C_L R_4 R_L \sqrt{\frac{1}{C_L L_L}}}{R_4 + 2R_L}$
 wo: $\sqrt{\frac{1}{C_L L_L}}$
 bandwidth: $\frac{R_4 + 2R_L}{C_L R_4 R_L}$
 K-LP: 0
 K-HP: 0
 K-BP: $\frac{R_1 R_4 R_L g_m}{(R_4 + 2R_L)(R_1 g_m + 1)}$
 QZ: 0
 Wz: None

3.3 BP-3 $Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_1 R_L g_m s}{(R_1 g_m + 1)(2C_4 L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L)}$$

Parameters:

Q: $R_L \sqrt{\frac{1}{L_L(2C_4 + C_L)}} (2C_4 + C_L)$
 wo: $\sqrt{\frac{1}{L_L(2C_4 + C_L)}}$
 bandwidth: $\frac{1}{R_L(2C_4 + C_L)}$
 K-LP: 0
 K-HP: 0
 K-BP: $\frac{R_1 R_L g_m}{R_1 g_m + 1}$
 QZ: 0
 Wz: None

3.4 BP-4 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_1 R_4 g_m s}{(R_1 g_m + 1)(2C_4 L_L R_4 s^2 + C_L L_L R_4 s^2 + 2L_L s + R_4)}$$

Parameters:

Q: $\frac{R_4 \sqrt{\frac{1}{L_L(2C_4+C_L)}}(2C_4+C_L)}{2}$
 wo: $\sqrt{\frac{1}{L_L(2C_4+C_L)}}$
 bandwidth: $\frac{2}{R_4(2C_4+C_L)}$
 K-LP: 0
 K-HP: 0
 K-BP: $\frac{R_1 R_4 g_m}{2(R_1 g_m + 1)}$
 QZ: 0
 WZ: None

3.5 BP-5 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_1 R_4 R_L g_m s}{(R_1 g_m + 1)(2C_4 L_L R_4 R_L s^2 + C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

Parameters:

Q: $\frac{R_4 R_L \sqrt{\frac{1}{L_L(2C_4+C_L)}}(2C_4+C_L)}{R_4 + 2R_L}$
 wo: $\sqrt{\frac{1}{L_L(2C_4+C_L)}}$
 bandwidth: $\frac{R_4 + 2R_L}{R_4 R_L(2C_4+C_L)}$
 K-LP: 0
 K-HP: 0
 K-BP: $\frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L}$
 QZ: 0
 WZ: None

3.6 BP-6 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_4 R_1 R_L g_m s}{(R_1 g_m + 1)(2C_4 L_4 R_L s^2 + L_4 s + 2R_L)}$$

Parameters:

Q: $2C_4R_L\sqrt{\frac{1}{C_4L_4}}$
 wo: $\sqrt{\frac{1}{C_4L_4}}$
 bandwidth: $\frac{1}{2C_4R_L}$
 K-LP: 0
 K-HP: 0
 K-BP: $\frac{R_1R_Lg_m}{R_1g_m+1}$
 QZ: 0
 Wz: None

3.7 BP-7 $Z(s) = \left(L_1s + \frac{1}{C_1s}, \infty, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{L_4R_1R_Lg_ms}{(R_1g_m + 1)(2C_4L_4R_Ls^2 + C_LL_4R_Ls^2 + L_4s + 2R_L)}$$

Parameters:

Q: $\sqrt{2}R_L\sqrt{\frac{1}{L_4(2C_4+C_L)}}(2C_4 + C_L)$
 wo: $\sqrt{2}\sqrt{\frac{1}{L_4(2C_4+C_L)}}$
 bandwidth: $\frac{1}{R_L(2C_4+C_L)}$
 K-LP: 0
 K-HP: 0
 K-BP: $\frac{R_1R_Lg_m}{R_1g_m+1}$
 QZ: 0
 Wz: None

3.8 BP-8 $Z(s) = \left(L_1s + \frac{1}{C_1s}, \infty, \infty, \infty, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_4L_LR_1R_Lg_ms}{(R_1g_m + 1)(2C_4L_4L_LR_Ls^2 + C_LL_4L_LR_Ls^2 + L_4L_Ls + L_4R_L + 2L_LR_L)}$$

Parameters:

Q: $R_L\sqrt{\frac{L_4+2L_L}{L_4L_L(2C_4+C_L)}}(2C_4 + C_L)$

wo: $\sqrt{\frac{L_4+2L_L}{L_4L_L(2C_4+C_L)}}$
 bandwidth: $\frac{1}{R_L(2C_4+C_L)}$
 K-LP: 0
 K-HP: 0
 K-BP: $\frac{R_1R_Lg_m}{R_1g_m+1}$
 QZ: 0
 Wz: None

3.9 BP-9 $Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, \infty, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_4R_1R_4R_Lg_ms}{(R_1g_m+1)(2C_4L_4R_4R_Ls^2 + L_4R_4s + 2L_4R_Ls + 2R_4R_L)}$$

Parameters:

Q: $\frac{2C_4R_4R_L\sqrt{\frac{1}{C_4L_4}}}{R_4+2R_L}$
 wo: $\sqrt{\frac{1}{C_4L_4}}$
 bandwidth: $\frac{R_4+2R_L}{2C_4R_4R_L}$
 K-LP: 0
 K-HP: 0
 K-BP: $\frac{R_1R_4R_Lg_m}{(R_4+2R_L)(R_1g_m+1)}$
 QZ: 0
 Wz: None

3.10 BP-10 $Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, \infty, \infty, \infty, \infty, \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_4R_1R_4g_ms}{(R_1g_m+1)(2C_4L_4R_4s^2 + C_LL_4R_4s^2 + 2L_4s + 2R_4)}$$

Parameters:

Q: $\frac{\sqrt{2}R_4\sqrt{\frac{1}{L_4(2C_4+C_L)}}(2C_4+C_L)}{2}$
 wo: $\sqrt{2}\sqrt{\frac{1}{L_4(2C_4+C_L)}}$

bandwidth: $\frac{2}{R_4(2C_4+C_L)}$
K-LP: 0
K-HP: 0
K-BP: $\frac{R_1 R_4 g_m}{2(R_1 g_m + 1)}$
QZ: 0
WZ: None

3.11 BP-11 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_4 R_1 R_4 R_L g_m s}{(R_1 g_m + 1) (2C_4 L_4 R_4 R_L s^2 + C_L L_4 R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

Parameters:

Q: $\frac{\sqrt{2} R_4 R_L \sqrt{\frac{1}{L_4(2C_4+C_L)}} (2C_4+C_L)}{R_4+2R_L}$
wo: $\sqrt{2} \sqrt{\frac{1}{L_4(2C_4+C_L)}}$
bandwidth: $\frac{R_4+2R_L}{R_4 R_L (2C_4+C_L)}$
K-LP: 0
K-HP: 0
K-BP: $\frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L}$
QZ: 0
WZ: None

3.12 BP-12 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_4 L_L R_1 R_4 g_m s}{(R_1 g_m + 1) (2C_4 L_4 L_L R_4 s^2 + C_L L_4 L_L R_4 s^2 + 2L_4 L_L s + L_4 R_4 + 2L_L R_4)}$$

Parameters:

Q: $\frac{R_4 \sqrt{\frac{L_4+2L_L}{L_4 L_L (2C_4+C_L)}} (2C_4+C_L)}{2}$
wo: $\sqrt{\frac{L_4+2L_L}{L_4 L_L (2C_4+C_L)}}$
bandwidth: $\frac{2}{R_4(2C_4+C_L)}$

K-LP: 0
K-HP: 0
K-BP: $\frac{R_1 R_4 g_m}{2(R_1 g_m + 1)}$
QZ: 0
Wz: None

3.13 BP-13 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_4 L_L R_1 R_4 R_L g_m s}{(R_1 g_m + 1)(2C_4 L_4 L_L R_4 R_L s^2 + C_L L_4 L_L R_4 R_L s^2 + L_4 L_L R_4 s + 2L_4 L_L R_L s + L_4 R_4 R_L + 2L_L R_4 R_L)}$$

Parameters:

Q: $\frac{R_4 R_L \sqrt{\frac{L_4 + 2L_L}{L_4 L_L (2C_4 + C_L)}} (2C_4 + C_L)}{R_4 + 2R_L}$
wo: $\sqrt{\frac{L_4 + 2L_L}{L_4 L_L (2C_4 + C_L)}}$
bandwidth: $\frac{R_4 + 2R_L}{R_4 R_L (2C_4 + C_L)}$
K-LP: 0
K-HP: 0
K-BP: $\frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L}$
QZ: 0
Wz: None

3.14 BP-14 $Z(s) = \left(\frac{R_1 (L_1 s + \frac{1}{C_1 s})}{L_1 s + R_1 + \frac{1}{C_1 s}}, \infty, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_4 g_m s}{(C_L R_4 s + 2)(L_1 g_m s + 1)}$$

Parameters:

Q: $\frac{\sqrt{2} C_L L_1 R_4 g_m \sqrt{\frac{1}{C_L L_1 R_4 g_m}}}{C_L R_4 + 2L_1 g_m}$
wo: $\sqrt{2} \sqrt{\frac{1}{C_L L_1 R_4 g_m}}$
bandwidth: $\frac{C_L R_4 + 2L_1 g_m}{C_L L_1 R_4 g_m}$

K-LP: 0
K-HP: 0
K-BP: $\frac{L_1 R_4 g_m}{C_L R_4 + 2L_1 g_m}$
QZ: 0
Wz: None

3.15 BP-15 $Z(s) = \left(\frac{R_1 \left(L_1 s + \frac{1}{C_1 s} \right)}{L_1 s + R_1 + \frac{1}{C_1 s}}, \infty, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_1 R_4 R_L g_m s}{(L_1 g_m s + 1)(C_L R_4 R_L s + R_4 + 2R_L)}$$

Parameters:

Q: $\frac{C_L L_1 R_4 R_L g_m \sqrt{\frac{R_4 + 2R_L}{C_L L_1 R_4 R_L g_m}}}{C_L R_4 R_L + L_1 R_4 g_m + 2L_1 R_L g_m}$
wo: $\sqrt{\frac{R_4 + 2R_L}{C_L L_1 R_4 R_L g_m}}$
bandwidth: $\frac{C_L R_4 R_L + L_1 R_4 g_m + 2L_1 R_L g_m}{C_L L_1 R_4 R_L g_m}$
K-LP: 0
K-HP: 0
K-BP: $\frac{L_1 R_4 R_L g_m}{C_L R_4 R_L + L_1 R_4 g_m + 2L_1 R_L g_m}$
QZ: 0
Wz: None

3.16 BP-16 $Z(s) = (\infty, R_2, \infty, \infty, \infty, R_L)$

$$H(s) = \frac{L_1 R_L g_m s}{(2C_4 R_L s + 1)(L_1 g_m s + 1)}$$

Parameters:

Q: $\frac{\sqrt{2} C_4 L_1 R_L g_m \sqrt{\frac{1}{C_4 L_1 R_L g_m}}}{2C_4 R_L + L_1 g_m}$
wo: $\frac{\sqrt{2} \sqrt{\frac{1}{C_4 L_1 R_L g_m}}}{2}$
bandwidth: $\frac{2C_4 R_L + L_1 g_m}{2C_4 L_1 R_L g_m}$

K-LP: 0

K-HP: 0

K-BP: $\frac{L_1 R_L g_m}{2C_4 R_L + L_1 g_m}$

QZ: 0

Wz: None

3.17 BP-17 $Z(s) = \left(\infty, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_1 R_L g_m s}{(L_1 g_m s + 1)(2C_4 R_L s + C_L R_L s + 1)}$$

Parameters:

$$Q: \frac{L_1 R_L g_m \sqrt{\frac{1}{L_1 R_L g_m (2C_4 + C_L)}} (2C_4 + C_L)}{2C_4 R_L + C_L R_L + L_1 g_m}$$

$$wo: \sqrt{\frac{1}{L_1 R_L g_m (2C_4 + C_L)}}$$

$$\text{bandwidth: } \frac{2C_4 R_L + C_L R_L + L_1 g_m}{L_1 R_L g_m (2C_4 + C_L)}$$

K-LP: 0

K-HP: 0

K-BP: $\frac{L_1 R_L g_m}{2C_4 R_L + C_L R_L + L_1 g_m}$

QZ: 0

Wz: None

3.18 BP-18 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_1 R_4 R_L g_m s}{(L_1 g_m s + 1)(2C_4 R_4 R_L s + R_4 + 2R_L)}$$

Parameters:

$$Q: \frac{\sqrt{2} C_4 L_1 R_4 R_L g_m \sqrt{\frac{R_4 + 2R_L}{C_4 L_1 R_4 R_L g_m}}}{2C_4 R_4 R_L + L_1 R_4 g_m + 2L_1 R_L g_m}$$

$$wo: \sqrt{\frac{\frac{R_4}{2} + R_L}{C_4 L_1 R_4 R_L g_m}}$$

$$\text{bandwidth: } \frac{\sqrt{2} \sqrt{\frac{R_4 + R_L}{2}} (2C_4 R_4 R_L + L_1 R_4 g_m + 2L_1 R_L g_m)}{2C_4 L_1 R_4 R_L g_m \sqrt{\frac{R_4 + 2R_L}{C_4 L_1 R_4 R_L g_m}}}$$

K-LP: 0

K-HP: 0

$$\text{K-BP: } \frac{L_1 R_4 R_L g_m}{2C_4 R_4 R_L + L_1 R_4 g_m + 2L_1 R_L g_m}$$

QZ: 0

Wz: None

$$\mathbf{3.19 \quad BP-19} \quad Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 R_4 g_m s}{(L_1 g_m s + 1)(2C_4 R_4 s + C_L R_4 s + 2)}$$

Parameters:

$$\text{Q: } \frac{\sqrt{2} L_1 R_4 g_m \sqrt{\frac{1}{L_1 R_4 g_m (2C_4 + C_L)}} (2C_4 + C_L)}{2C_4 R_4 + C_L R_4 + 2L_1 g_m}$$

$$\text{wo: } \sqrt{2} \sqrt{\frac{1}{L_1 R_4 g_m (2C_4 + C_L)}}$$

$$\text{bandwidth: } \frac{2C_4 R_4 + C_L R_4 + 2L_1 g_m}{L_1 R_4 g_m (2C_4 + C_L)}$$

K-LP: 0

K-HP: 0

$$\text{K-BP: } \frac{L_1 R_4 g_m}{2C_4 R_4 + C_L R_4 + 2L_1 g_m}$$

QZ: 0

Wz: None

$$\mathbf{3.20 \quad BP-20} \quad Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_1 R_4 R_L g_m s}{(L_1 g_m s + 1)(2C_4 R_4 R_L s + C_L R_4 R_L s + R_4 + 2R_L)}$$

Parameters:

$$\text{Q: } \frac{L_1 R_4 R_L g_m \sqrt{\frac{R_4 + 2R_L}{L_1 R_4 R_L g_m (2C_4 + C_L)}} (2C_4 + C_L)}{2C_4 R_4 R_L + C_L R_4 R_L + L_1 R_4 g_m + 2L_1 R_L g_m}$$

wo: $\sqrt{\frac{R_4+2R_L}{L_1 R_4 R_L g_m (2C_4+C_L)}}$
 bandwidth: $\frac{2C_4 R_4 R_L + C_L R_4 R_L + L_1 R_4 g_m + 2L_1 R_L g_m}{L_1 R_4 R_L g_m (2C_4+C_L)}$
 K-LP: 0
 K-HP: 0
 K-BP: $\frac{L_1 R_4 R_L g_m}{2C_4 R_4 R_L + C_L R_4 R_L + L_1 R_4 g_m + 2L_1 R_L g_m}$
 QZ: 0
 Wz: None

3.21 BP-21 $Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_1 R_4 R_L g_m s}{(R_4 + 2R_L)(C_1 L_1 s^2 + L_1 g_m s + 1)}$$

Parameters:

Q: $\frac{C_1 \sqrt{\frac{1}{C_1 L_1}}}{g_m}$
 wo: $\sqrt{\frac{1}{C_1 L_1}}$
 bandwidth: $\frac{g_m}{C_1}$
 K-LP: 0
 K-HP: 0
 K-BP: $\frac{R_4 R_L}{R_4 + 2R_L}$
 QZ: 0
 Wz: None

3.22 BP-22 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_1 R_1 R_4 R_L g_m s}{(R_4 + 2R_L)(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

Parameters:

Q: $\frac{C_1 R_1 \sqrt{\frac{1}{C_1 L_1}}}{R_1 g_m + 1}$

wo: $\sqrt{\frac{1}{C_1 L_1}}$
 bandwidth: $\frac{R_1 g_m + 1}{C_1 R_1}$
 K-LP: 0
 K-HP: 0
 K-BP: $\frac{R_1 R_4 R_L g_m}{(R_4 + 2R_L)(R_1 g_m + 1)}$
 QZ: 0
 Wz: None

4 LP

4.1 LP-1 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m}{(C_1 s + g_m)(C_L R_4 s + 2)}$$

Parameters:

Q: $\frac{\sqrt{2} C_1 C_L R_4 \sqrt{\frac{g_m}{C_1 C_L R_4}}}{2C_1 + C_L R_4 g_m}$
 wo: $\sqrt{2} \sqrt{\frac{g_m}{C_1 C_L R_4}}$
 bandwidth: $\frac{2C_1 + C_L R_4 g_m}{C_1 C_L R_4}$
 K-LP: $\frac{R_4}{2}$
 K-HP: 0
 K-BP: 0
 QZ: None
 Wz: None

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

$$H(s) = \frac{R_4 R_L g_m}{(C_1 s + g_m)(C_L R_4 R_L s + R_4 + 2R_L)}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_1 C_L R_4 R_L \sqrt{\frac{g_m (R_4 + 2R_L)}{C_1 C_L R_4 R_L}}}{C_1 R_4 + 2C_1 R_L + C_L R_4 R_L g_m} \\ \text{wo: } & \sqrt{\frac{g_m (R_4 + 2R_L)}{C_1 C_L R_4 R_L}} \\ \text{bandwidth: } & \frac{C_1 R_4 + 2C_1 R_L + C_L R_4 R_L g_m}{C_1 C_L R_4 R_L} \\ \text{K-LP: } & \frac{R_4 R_L}{R_4 + 2R_L} \\ \text{K-HP: } & 0 \\ \text{K-BP: } & 0 \\ \text{QZ: } & \text{None} \\ \text{WZ: } & \text{None} \end{aligned}$$

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

$$H(s) = \frac{R_L g_m}{(C_1 s + g_m)(2C_4 R_L s + 1)}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{\sqrt{2} C_1 C_4 R_L \sqrt{\frac{g_m}{C_1 C_4 R_L}}}{C_1 + 2C_4 R_L g_m} \\ \text{wo: } & \frac{\sqrt{2} \sqrt{\frac{g_m}{C_1 C_4 R_L}}}{2} \\ \text{bandwidth: } & \frac{C_1 + 2C_4 R_L g_m}{2C_1 C_4 R_L} \\ \text{K-LP: } & R_L \\ \text{K-HP: } & 0 \\ \text{K-BP: } & 0 \\ \text{QZ: } & \text{None} \\ \text{WZ: } & \text{None} \end{aligned}$$

4.4 LP-4 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L g_m}{(C_1 s + g_m)(2C_4 R_L s + C_L R_L s + 1)}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_1 R_L \sqrt{\frac{g_m}{C_1 R_L (2C_4 + C_L)}} (2C_4 + C_L)}{C_1 + 2C_4 R_L g_m + C_L R_L g_m} \\ \text{wo: } & \sqrt{\frac{g_m}{C_1 R_L (2C_4 + C_L)}} \\ \text{bandwidth: } & \frac{C_1 + 2C_4 R_L g_m + C_L R_L g_m}{C_1 R_L (2C_4 + C_L)} \\ \text{K-LP: } & R_L \\ \text{K-HP: } & 0 \\ \text{K-BP: } & 0 \\ \text{QZ: } & \text{None} \\ \text{WZ: } & \text{None} \end{aligned}$$

$$4.5 \quad \text{LP-5 } Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L \right)$$

$$H(s) = \frac{R_4 R_L g_m}{(C_1 s + g_m) (2C_4 R_4 R_L s + R_4 + 2R_L)}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{\sqrt{2} C_1 C_4 R_4 R_L \sqrt{\frac{g_m (R_4 + 2R_L)}{C_1 C_4 R_4 R_L}}}{C_1 R_4 + 2C_1 R_L + 2C_4 R_4 R_L g_m} \\ \text{wo: } & \frac{\sqrt{2} \sqrt{\frac{g_m (R_4 + 2R_L)}{C_1 C_4 R_4 R_L}}}{2} \\ \text{bandwidth: } & \frac{C_1 R_4 + 2C_1 R_L + 2C_4 R_4 R_L g_m}{2C_1 C_4 R_4 R_L} \\ \text{K-LP: } & \frac{R_4 R_L}{R_4 + 2R_L} \\ \text{K-HP: } & 0 \\ \text{K-BP: } & 0 \\ \text{QZ: } & \text{None} \\ \text{WZ: } & \text{None} \end{aligned}$$

$$4.6 \quad \text{LP-6 } Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_4 g_m}{(C_1 s + g_m) (2C_4 R_4 s + C_L R_4 s + 2)}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{\sqrt{2}C_1R_4\sqrt{\frac{g_m}{C_1R_4(2C_4+C_L)}}(2C_4+C_L)}{2C_1+2C_4R_4g_m+C_LR_4g_m} \\ \text{wo: } & \sqrt{2}\sqrt{\frac{g_m}{C_1R_4(2C_4+C_L)}} \\ \text{bandwidth: } & \frac{2C_1+2C_4R_4g_m+C_LR_4g_m}{C_1R_4(2C_4+C_L)} \\ \text{K-LP: } & \frac{R_4}{2} \\ \text{K-HP: } & 0 \\ \text{K-BP: } & 0 \\ \text{Qz: } & \text{None} \\ \text{Wz: } & \text{None} \end{aligned}$$

4.7 LP-7 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{R_4R_Lg_m}{(C_1s + g_m)(2C_4R_4R_Ls + C_LR_4R_Ls + R_4 + 2R_L)}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_1R_4R_L\sqrt{\frac{g_m(R_4+2R_L)}{C_1R_4R_L(2C_4+C_L)}}(2C_4+C_L)}{C_1R_4+2C_1R_L+2C_4R_4R_Lg_m+C_LR_4R_Lg_m} \\ \text{wo: } & \sqrt{\frac{g_m(R_4+2R_L)}{C_1R_4R_L(2C_4+C_L)}} \\ \text{bandwidth: } & \frac{C_1R_4+2C_1R_L+2C_4R_4R_Lg_m+C_LR_4R_Lg_m}{C_1R_4R_L(2C_4+C_L)} \\ \text{K-LP: } & \frac{R_4R_L}{R_4+2R_L} \\ \text{K-HP: } & 0 \\ \text{K-BP: } & 0 \\ \text{Qz: } & \text{None} \\ \text{Wz: } & \text{None} \end{aligned}$$

4.8 LP-8 $Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4s}, \infty, \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_1R_4g_m}{(C_LR_4s + 2)(C_1R_1s + R_1g_m + 1)}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{\sqrt{2}C_1C_LR_1R_4\sqrt{\frac{R_1g_m+1}{C_1C_LR_1R_4}}}{2C_1R_1+C_LR_1R_4g_m+C_LR_4} \\ \text{wo: } & \sqrt{2}\sqrt{\frac{R_1g_m+1}{C_1C_LR_1R_4}} \\ \text{bandwidth: } & \frac{2C_1R_1+C_LR_1R_4g_m+C_LR_4}{C_1C_LR_1R_4} \\ \text{K-LP: } & \frac{R_1R_4g_m}{2(R_1g_m+1)} \\ \text{K-HP: } & 0 \\ \text{K-BP: } & 0 \\ \text{QZ: } & \text{None} \\ \text{Wz: } & \text{None} \end{aligned}$$

4.9 LP-9 $Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4s}, \infty, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{R_1R_4R_Lg_m}{(C_1R_1s + R_1g_m + 1)(C_LR_4R_Ls + R_4 + 2R_L)}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_1C_LR_1R_4R_L\sqrt{\frac{R_1R_4g_m+2R_1R_Lg_m+R_4+2R_L}{C_1C_LR_1R_4R_L}}}{C_1R_1R_4+2C_1R_1R_L+C_LR_1R_4R_Lg_m+C_LR_4R_L} \\ \text{wo: } & \sqrt{\frac{R_1R_4g_m+2R_1R_Lg_m+R_4+2R_L}{C_1C_LR_1R_4R_L}} \\ \text{bandwidth: } & \frac{C_1R_1R_4+2C_1R_1R_L+C_LR_1R_4R_Lg_m+C_LR_4R_L}{C_1C_LR_1R_4R_L} \\ \text{K-LP: } & \frac{R_1R_4R_Lg_m}{R_1R_4g_m+2R_1R_Lg_m+R_4+2R_L} \\ \text{K-HP: } & 0 \\ \text{K-BP: } & 0 \\ \text{QZ: } & \text{None} \\ \text{Wz: } & \text{None} \end{aligned}$$

4.10 LP-10 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4}{C_4R_4s+1}, \infty, R_L \right)$

$$H(s) = \frac{R_1R_Lg_m}{(2C_4R_Ls + 1)(C_1R_1s + R_1g_m + 1)}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{\sqrt{2}C_1C_4R_1R_L\sqrt{\frac{R_1g_m+1}{C_1C_4R_1R_L}}}{C_1R_1+2C_4R_1R_Lg_m+2C_4R_L} \\ \text{wo: } & \frac{\sqrt{2}\sqrt{\frac{R_1g_m+1}{C_1C_4R_1R_L}}}{2} \\ \text{bandwidth: } & \frac{C_1R_1+2C_4R_1R_Lg_m+2C_4R_L}{2C_1C_4R_1R_L} \\ \text{K-LP: } & \frac{R_1R_Lg_m}{R_1g_m+1} \\ \text{K-HP: } & 0 \\ \text{K-BP: } & 0 \\ \text{QZ: } & \text{None} \\ \text{Wz: } & \text{None} \end{aligned}$$

4.11 LP-11 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4}{C_4R_4s+1}, \infty, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{R_1R_Lg_m}{(C_1R_1s + R_1g_m + 1)(2C_4R_Ls + C_LR_Ls + 1)}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_1R_1R_L\sqrt{\frac{R_1g_m+1}{C_1R_1R_L(2C_4+C_L)}}(2C_4+C_L)}{C_1R_1+2C_4R_1R_Lg_m+2C_4R_L+C_LR_1R_Lg_m+C_LR_L} \\ \text{wo: } & \sqrt{\frac{R_1g_m+1}{C_1R_1R_L(2C_4+C_L)}} \\ \text{bandwidth: } & \frac{C_1R_1+2C_4R_1R_Lg_m+2C_4R_L+C_LR_1R_Lg_m+C_LR_L}{C_1R_1R_L(2C_4+C_L)} \\ \text{K-LP: } & \frac{R_1R_Lg_m}{R_1g_m+1} \\ \text{K-HP: } & 0 \\ \text{K-BP: } & 0 \\ \text{QZ: } & \text{None} \\ \text{Wz: } & \text{None} \end{aligned}$$

4.12 LP-12 $Z(s) = \left(\infty, \infty, \infty, R_4 + \frac{1}{C_4s}, \infty, R_L \right)$

$$H(s) = \frac{R_1R_4R_Lg_m}{(C_1R_1s + R_1g_m + 1)(2C_4R_4R_Ls + R_4 + 2R_L)}$$

Parameters:

$$\begin{aligned}
Q: & \frac{\sqrt{2}C_1C_4R_1R_4R_L\sqrt{\frac{R_1R_4g_m+2R_1R_Lg_m+R_4+2R_L}{C_1C_4R_1R_4R_L}}}{C_1R_1R_4+2C_1R_1R_L+2C_4R_1R_4R_Lg_m+2C_4R_4R_L} \\
wo: & \sqrt{\frac{\frac{R_1R_4g_m}{2}+R_1R_Lg_m+\frac{R_4}{2}+R_L}{C_1C_4R_1R_4R_L}} \\
bandwidth: & \frac{\sqrt{2}\sqrt{\frac{\frac{R_1R_4g_m}{2}+R_1R_Lg_m+\frac{R_4}{2}+R_L}{C_1C_4R_1R_4R_L}}(C_1R_1R_4+2C_1R_1R_L+2C_4R_1R_4R_Lg_m+2C_4R_4R_L)}{2C_1C_4R_1R_4R_L\sqrt{\frac{R_1R_4g_m+2R_1R_Lg_m+R_4+2R_L}{C_1C_4R_1R_4R_L}}} \\
K-LP: & \frac{R_1R_4R_Lg_m}{R_1R_4g_m+2R_1R_Lg_m+R_4+2R_L} \\
K-HP: & 0 \\
K-BP: & 0 \\
Qz: & \text{None} \\
Wz: & \text{None}
\end{aligned}$$

4.13 LP-13 $Z(s) = \left(\infty, \infty, \infty, R_4 + \frac{1}{C_4s}, \infty, \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_1R_4g_m}{(C_1R_1s + R_1g_m + 1)(2C_4R_4s + C_LR_4s + 2)}$$

Parameters:

$$\begin{aligned}
Q: & \frac{\sqrt{2}C_1R_1R_4\sqrt{\frac{R_1g_m+1}{C_1R_1R_4(2C_4+C_L)}}(2C_4+C_L)}{2C_1R_1+2C_4R_1R_4g_m+2C_4R_4+C_LR_1R_4g_m+C_LR_4} \\
wo: & \sqrt{2}\sqrt{\frac{R_1g_m+1}{C_1R_1R_4(2C_4+C_L)}} \\
bandwidth: & \frac{2C_1R_1+2C_4R_1R_4g_m+2C_4R_4+C_LR_1R_4g_m+C_LR_4}{C_1R_1R_4(2C_4+C_L)} \\
K-LP: & \frac{R_1R_4g_m}{2(R_1g_m+1)} \\
K-HP: & 0 \\
K-BP: & 0 \\
Qz: & \text{None} \\
Wz: & \text{None}
\end{aligned}$$

4.14 LP-14 $Z(s) = \left(\infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_1 R_4 R_L g_m}{(C_1 R_1 s + R_1 g_m + 1)(2C_4 R_4 R_L s + C_L R_4 R_L s + R_4 + 2R_L)}$$

Parameters:

Q: $\frac{C_1 R_1 R_4 R_L \sqrt{\frac{R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L}{C_1 R_1 R_4 R_L (2C_4 + C_L)}} (2C_4 + C_L)}{C_1 R_1 R_4 + 2C_1 R_1 R_L + 2C_4 R_1 R_4 R_L g_m + 2C_4 R_4 R_L + C_L R_1 R_4 R_L g_m + C_L R_4 R_L}$
 wo: $\sqrt{\frac{R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L}{C_1 R_1 R_4 R_L (2C_4 + C_L)}}$
 bandwidth: $\frac{C_1 R_1 R_4 + 2C_1 R_1 R_L + 2C_4 R_1 R_4 R_L g_m + 2C_4 R_4 R_L + C_L R_1 R_4 R_L g_m + C_L R_4 R_L}{C_1 R_1 R_4 R_L (2C_4 + C_L)}$
 K-LP: $\frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L}$
 K-HP: 0
 K-BP: 0
 Qz: None
 Wz: None

4.15 LP-15 $Z(s) = \left(L_1 s, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m}{(2C_4 + C_L)(C_1 L_1 s^2 + L_1 g_m s + 1)}$$

Parameters:

Q: $\frac{C_1 \sqrt{\frac{1}{C_1 L_1}}}{g_m}$
 wo: $\sqrt{\frac{1}{C_1 L_1}}$
 bandwidth: $\frac{g_m}{C_1}$
 K-LP: $\frac{L_1 g_m}{2C_4 + C_L}$
 K-HP: 0
 K-BP: 0
 Qz: None
 Wz: None

4.16 LP-16 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 g_m}{(2C_4 + C_L)(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

Parameters:

Q: $\frac{C_1 R_1 \sqrt{\frac{1}{C_1 L_1}}}{R_1 g_m + 1}$

wo: $\sqrt{\frac{1}{C_1 L_1}}$

bandwidth: $\frac{R_1 g_m + 1}{C_1 R_1}$

K-LP: $\frac{L_1 g_m}{2C_4 + C_L}$

K-HP: 0

K-BP: 0

Qz: None

Wz: None

5 BS

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

$$H(s) = \frac{R_1 R_4 g_m (C_L L_L s^2 + 1)}{(R_1 g_m + 1)(2C_L L_L s^2 + C_L R_4 s + 2)}$$

Parameters:

Q: $\frac{2L_L \sqrt{\frac{1}{C_L L_L}}}{R_4}$

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

bandwidth: $\frac{R_4}{2L_L}$

K-LP: $\frac{R_1 R_4 g_m}{2(R_1 g_m + 1)}$

K-HP: $\frac{R_1 R_4 g_m}{2(R_1 g_m + 1)}$

K-BP: 0

$$\begin{aligned} \text{Qz: } & \text{None} \\ \text{Wz: } & \sqrt{\frac{1}{C_L L_L}} \end{aligned}$$

$$\mathbf{5.2 \quad BS-2} \quad Z(s) = \left(R_1, \infty, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_1 R_4 R_L g_m (C_L L_L s^2 + 1)}{(R_1 g_m + 1) (C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2 R_L)}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{L_L \sqrt{\frac{1}{C_L L_L}} (R_4 + 2 R_L)}{R_4 R_L} \\ \text{wo: } & \sqrt{\frac{1}{C_L L_L}} \\ \text{bandwidth: } & \frac{R_4 R_L}{L_L (R_4 + 2 R_L)} \\ \text{K-LP: } & \frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L} \\ \text{K-HP: } & \frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L} \\ \text{K-BP: } & 0 \\ \text{Qz: } & \text{None} \\ \text{Wz: } & \sqrt{\frac{1}{C_L L_L}} \end{aligned}$$

$$\mathbf{5.3 \quad BS-3} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_4 L_4 s^2 + 1)}{(R_1 g_m + 1) (C_4 L_4 s^2 + 2 C_4 R_L s + 1)}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{L_4 \sqrt{\frac{1}{C_4 L_4}}}{2 R_L} \\ \text{wo: } & \sqrt{\frac{1}{C_4 L_4}} \\ \text{bandwidth: } & \frac{2 R_L}{L_4} \\ \text{K-LP: } & \frac{R_1 R_L g_m}{R_1 g_m + 1} \\ \text{K-HP: } & \frac{R_1 R_L g_m}{R_1 g_m + 1} \end{aligned}$$

K-BP: 0
 QZ: None
 WZ: $\sqrt{\frac{1}{C_4 L_4}}$

5.4 BS-4 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \infty, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_1 R_4 R_L g_m (C_4 L_4 s^2 + 1)}{(R_1 g_m + 1) (C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + 2 C_4 R_4 R_L s + R_4 + 2 R_L)}$$

Parameters:

Q: $\frac{L_4 \sqrt{\frac{1}{C_4 L_4}} (R_4 + 2 R_L)}{2 R_4 R_L}$
 wo: $\sqrt{\frac{1}{C_4 L_4}}$
 bandwidth: $\frac{2 R_4 R_L}{L_4 (R_4 + 2 R_L)}$
 K-LP: $\frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L}$
 K-HP: $\frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L}$
 K-BP: 0
 QZ: None
 WZ: $\sqrt{\frac{1}{C_4 L_4}}$

5.5 BS-5 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_4 R_L g_m (C_1 L_1 s^2 + 1)}{(R_4 + 2 R_L) (C_1 L_1 g_m s^2 + C_1 s + g_m)}$$

Parameters:

Q: $L_1 g_m \sqrt{\frac{1}{C_1 L_1}}$
 wo: $\sqrt{\frac{1}{C_1 L_1}}$
 bandwidth: $\frac{1}{L_1 g_m}$
 K-LP: $\frac{R_4 R_L}{R_4 + 2 R_L}$
 K-HP: $\frac{R_4 R_L}{R_4 + 2 R_L}$

K-BP: 0
 Qz: None
 Wz: $\sqrt{\frac{1}{C_1 L_1}}$

5.6 BS-6 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_1 R_4 R_L g_m (C_1 L_1 s^2 + 1)}{(R_4 + 2R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

Parameters:

Q: $\frac{L_1 \sqrt{\frac{1}{C_1 L_1}} (R_1 g_m + 1)}{R_1}$
 wo: $\sqrt{\frac{1}{C_1 L_1}}$
 bandwidth: $\frac{R_1}{L_1 (R_1 g_m + 1)}$
 K-LP: $\frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L}$
 K-HP: $\frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L}$
 K-BP: 0
 Qz: None
 Wz: $\sqrt{\frac{1}{C_1 L_1}}$

6 GE

6.1 GE-1 $Z(s) = \left(R_1, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_L L_L s^2 + C_L R_L s + 1)}{(R_1 g_m + 1) (2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

Parameters:

Q: $\frac{2L_L \sqrt{\frac{1}{C_L L_L}}}{R_4 + 2R_L}$

$$\begin{aligned}
\text{wo: } & \sqrt{\frac{1}{C_L L_L}} \\
\text{bandwidth: } & \frac{R_4+2R_L}{2L_L} \\
\text{K-LP: } & \frac{R_1 R_4 g_m}{2(R_1 g_m+1)} \\
\text{K-HP: } & \frac{R_1 R_4 g_m}{2(R_1 g_m+1)} \\
\text{K-BP: } & \frac{R_1 R_4 R_L g_m}{(R_4+2R_L)(R_1 g_m+1)} \\
\text{QZ: } & \frac{L_L \sqrt{\frac{1}{C_L L_L}}}{R_L} \\
\text{WZ: } & \sqrt{\frac{1}{C_L L_L}}
\end{aligned}$$

6.2 GE-2 $Z(s) = \left(R_1, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_L L_L R_L s^2 + L_L s + R_L)}{(R_1 g_m + 1) (C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + 2L_L s + R_4 + 2R_L)}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{C_L \sqrt{\frac{1}{C_L L_L}} (R_4 + 2R_L)}{2} \\
\text{wo: } & \sqrt{\frac{1}{C_L L_L}} \\
\text{bandwidth: } & \frac{2}{C_L (R_4 + 2R_L)} \\
\text{K-LP: } & \frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L} \\
\text{K-HP: } & \frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L} \\
\text{K-BP: } & \frac{R_1 R_4 g_m}{2(R_1 g_m + 1)} \\
\text{QZ: } & C_L R_L \sqrt{\frac{1}{C_L L_L}} \\
\text{WZ: } & \sqrt{\frac{1}{C_L L_L}}
\end{aligned}$$

6.3 GE-3 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_1 R_L g_m (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(R_1 g_m + 1) (C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + 1)}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{L_4 \sqrt{\frac{1}{C_4 L_4}}}{R_4 + 2R_L} \\
\text{wo: } & \sqrt{\frac{1}{C_4 L_4}} \\
\text{bandwidth: } & \frac{R_4 + 2R_L}{L_4} \\
\text{K-LP: } & \frac{R_1 R_L g_m}{R_1 g_m + 1} \\
\text{K-HP: } & \frac{R_1 R_L g_m}{R_1 g_m + 1} \\
\text{K-BP: } & \frac{R_1 R_4 R_L g_m}{(R_4 + 2R_L)(R_1 g_m + 1)} \\
\text{QZ: } & \frac{L_4 \sqrt{\frac{1}{C_4 L_4}}}{R_4} \\
\text{WZ: } & \sqrt{\frac{1}{C_4 L_4}}
\end{aligned}$$

$$\mathbf{6.4 \quad GE-4} \quad Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1} + \frac{1}{L_1 s}}, \infty, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(R_1 g_m + 1) (C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + L_4 s + R_4 + 2R_L)}$$

Parameters:

$$\begin{aligned}
\text{Q: } & C_4 \sqrt{\frac{1}{C_4 L_4}} (R_4 + 2R_L) \\
\text{wo: } & \sqrt{\frac{1}{C_4 L_4}} \\
\text{bandwidth: } & \frac{1}{C_4 (R_4 + 2R_L)} \\
\text{K-LP: } & \frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L} \\
\text{K-HP: } & \frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L} \\
\text{K-BP: } & \frac{R_1 R_L g_m}{R_1 g_m + 1} \\
\text{QZ: } & C_4 R_4 \sqrt{\frac{1}{C_4 L_4}} \\
\text{WZ: } & \sqrt{\frac{1}{C_4 L_4}}
\end{aligned}$$

6.5 GE-5 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_4 R_L g_m (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(R_4 + 2R_L) (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m)}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{L_1 g_m \sqrt{\frac{1}{C_1 L_1}}}{R_1 g_m + 1} \\ \text{wo: } & \sqrt{\frac{1}{C_1 L_1}} \\ \text{bandwidth: } & \frac{R_1 g_m + 1}{L_1 g_m} \\ \text{K-LP: } & \frac{R_4 R_L}{R_4 + 2R_L} \\ \text{K-HP: } & \frac{R_4 R_L}{R_4 + 2R_L} \\ \text{K-BP: } & \frac{R_1 R_4 R_L g_m}{(R_4 + 2R_L)(R_1 g_m + 1)} \\ \text{Qz: } & \frac{L_1 \sqrt{\frac{1}{C_1 L_1}}}{R_1} \\ \text{Wz: } & \sqrt{\frac{1}{C_1 L_1}} \end{aligned}$$

6.6 GE-6 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_4 R_L g_m (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(R_4 + 2R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_1 \sqrt{\frac{1}{C_1 L_1}} (R_1 g_m + 1)}{g_m} \\ \text{wo: } & \sqrt{\frac{1}{C_1 L_1}} \\ \text{bandwidth: } & \frac{g_m}{C_1 (R_1 g_m + 1)} \\ \text{K-LP: } & \frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L} \\ \text{K-HP: } & \frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L} \\ \text{K-BP: } & \frac{R_4 R_L}{R_4 + 2R_L} \\ \text{Qz: } & C_1 R_1 \sqrt{\frac{1}{C_1 L_1}} \end{aligned}$$

$$W_z: \sqrt{\frac{1}{C_1 L_1}}$$

7 AP

8 INVALID-NUMER

$$8.1 \quad \text{INVALID-NUMER-1} \quad Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 R_4 g_m (C_L R_L s + 1)}{(R_1 g_m + 1) (2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + C_L R_4 s + 2C_L R_L s + 2)}$$

Parameters:

$$Q: \frac{2C_4 C_L R_4 R_L \sqrt{\frac{1}{C_4 C_L R_4 R_L}}}{2C_4 R_4 + C_L R_4 + 2C_L R_L}$$

$$w_0: \sqrt{\frac{1}{C_4 C_L R_4 R_L}}$$

$$\text{bandwidth: } \frac{2C_4 R_4 + C_L R_4 + 2C_L R_L}{2C_4 C_L R_4 R_L}$$

$$\text{K-LP: } \frac{R_1 R_4 g_m}{2(R_1 g_m + 1)}$$

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

$$\text{K-BP: } \frac{C_L R_1 R_4 R_L g_m}{(R_1 g_m + 1)(2C_4 R_4 + C_L R_4 + 2C_L R_L)}$$

$$Q_z: 0$$

$$W_z: \text{None}$$

$$8.2 \quad \text{INVALID-NUMER-2} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_4 R_4 s + 1)}{(R_1 g_m + 1) (C_4 C_L R_4 R_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L R_L s + 1)}$$

Parameters:

$$Q: \frac{C_4 C_L R_4 R_L \sqrt{\frac{1}{C_4 C_L R_4 R_L}}}{C_4 R_4 + 2C_4 R_L + C_L R_L}$$

wo: $\sqrt{\frac{1}{C_4 C_L R_4 R_L}}$
 bandwidth: $\frac{C_4 R_4 + 2C_4 R_L + C_L R_L}{C_4 C_L R_4 R_L}$
 K-LP: $\frac{R_1 R_L g_m}{R_1 g_m + 1}$
 K-HP: 0
 K-BP: $\frac{C_4 R_1 R_4 R_L g_m}{(R_1 g_m + 1)(C_4 R_4 + 2C_4 R_L + C_L R_L)}$
 QZ: 0
 Wz: None

8.3 INVALID-NUMER-3 $Z(s) = \left(\frac{R_1 \left(L_1 s + \frac{1}{C_1 s} \right)}{L_1 s + R_1 + \frac{1}{C_1 s}}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_L R_L s + 1)}{(L_1 g_m s + 1) (C_L R_4 s + 2C_L R_L s + 2)}$$

Parameters:

Q: $\frac{\sqrt{2} C_L L_1 g_m \sqrt{\frac{1}{C_L L_1 g_m (R_4 + 2R_L)}} (R_4 + 2R_L)}{C_L R_4 + 2C_L R_L + 2L_1 g_m}$
 wo: $\sqrt{2} \sqrt{\frac{1}{C_L L_1 g_m (R_4 + 2R_L)}}$
 bandwidth: $\frac{C_L R_4 + 2C_L R_L + 2L_1 g_m}{C_L L_1 g_m (R_4 + 2R_L)}$
 K-LP: 0
 K-HP: $\frac{R_4 R_L}{R_4 + 2R_L}$
 K-BP: $\frac{L_1 R_4 g_m}{C_L R_4 + 2C_L R_L + 2L_1 g_m}$
 QZ: $\sqrt{2} C_L R_L \sqrt{\frac{1}{C_L L_1 g_m (R_4 + 2R_L)}}$
 Wz: None

8.4 INVALID-NUMER-4 $Z(s) = \left(\infty, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m (C_L R_L s + 1)}{(L_1 g_m s + 1) (2C_4 C_L R_L s + 2C_4 + C_L)}$$

Parameters:

Q: $\frac{\sqrt{2} C_4 C_L L_1 R_L g_m \sqrt{\frac{2C_4 + C_L}{C_4 C_L L_1 R_L g_m}}}{2C_4 C_L R_L + 2C_4 L_1 g_m + C_L L_1 g_m}$

$$\begin{aligned}
\text{wo: } & \sqrt{\frac{C_4 + \frac{C_L}{2}}{C_4 C_L L_1 R_L g_m}} \\
\text{bandwidth: } & \frac{\sqrt{2} \sqrt{\frac{C_4 + \frac{C_L}{2}}{C_4 C_L L_1 R_L g_m}} (2C_4 C_L R_L + 2C_4 L_1 g_m + C_L L_1 g_m)}{2C_4 C_L L_1 R_L g_m \sqrt{\frac{2C_4 + C_L}{C_4 C_L L_1 R_L g_m}}} \\
\text{K-LP: } & \frac{L_1 g_m}{2C_4 + C_L} \\
\text{K-HP: } & 0 \\
\text{K-BP: } & \frac{C_L L_1 R_L g_m}{2C_4 C_L R_L + 2C_4 L_1 g_m + C_L L_1 g_m} \\
\text{QZ: } & 0 \\
\text{Wz: } & \text{None}
\end{aligned}$$

8.5 INVALID-NUMER-5 $Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_1 R_L g_m s (C_4 R_4 s + 1)}{(L_1 g_m s + 1) (C_4 R_4 s + 2C_4 R_L s + 1)}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{C_4 L_1 g_m \sqrt{\frac{1}{C_4 L_1 g_m (R_4 + 2R_L)}} (R_4 + 2R_L)}{C_4 R_4 + 2C_4 R_L + L_1 g_m} \\
\text{wo: } & \sqrt{\frac{1}{C_4 L_1 g_m (R_4 + 2R_L)}} \\
\text{bandwidth: } & \frac{C_4 R_4 + 2C_4 R_L + L_1 g_m}{C_4 L_1 g_m (R_4 + 2R_L)} \\
\text{K-LP: } & 0 \\
\text{K-HP: } & \frac{R_4 R_L}{R_4 + 2R_L} \\
\text{K-BP: } & \frac{L_1 R_L g_m}{C_4 R_4 + 2C_4 R_L + L_1 g_m} \\
\text{QZ: } & C_4 R_4 \sqrt{\frac{1}{C_4 L_1 g_m (R_4 + 2R_L)}} \\
\text{Wz: } & \text{None}
\end{aligned}$$

8.6 INVALID-NUMER-6 $Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m (C_4 R_4 s + 1)}{(L_1 g_m s + 1) (C_4 C_L R_4 s + 2C_4 + C_L)}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{C_4 C_L L_1 R_4 g_m \sqrt{\frac{2C_4 + C_L}{C_4 C_L L_1 R_4 g_m}}}{C_4 C_L R_4 + 2C_4 L_1 g_m + C_L L_1 g_m} \\
\text{wo: } & \sqrt{\frac{2C_4 + C_L}{C_4 C_L L_1 R_4 g_m}} \\
\text{bandwidth: } & \frac{C_4 C_L R_4 + 2C_4 L_1 g_m + C_L L_1 g_m}{C_4 C_L L_1 R_4 g_m} \\
\text{K-LP: } & \frac{L_1 g_m}{2C_4 + C_L} \\
\text{K-HP: } & 0 \\
\text{K-BP: } & \frac{C_4 L_1 R_4 g_m}{C_4 C_L R_4 + 2C_4 L_1 g_m + C_L L_1 g_m} \\
\text{QZ: } & 0 \\
\text{WZ: } & \text{None}
\end{aligned}$$

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

$$H(s) = \frac{R_4 g_m (C_L R_L s + 1)}{(C_1 s + g_m) (C_L R_4 s + 2C_L R_L s + 2)}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{\sqrt{2} C_1 C_L \sqrt{\frac{g_m}{C_1 C_L (R_4 + 2R_L)}} (R_4 + 2R_L)}{2C_1 + C_L R_4 g_m + 2C_L R_L g_m} \\
\text{wo: } & \sqrt{2} \sqrt{\frac{g_m}{C_1 C_L (R_4 + 2R_L)}} \\
\text{bandwidth: } & \frac{2C_1 + C_L R_4 g_m + 2C_L R_L g_m}{C_1 C_L (R_4 + 2R_L)} \\
\text{K-LP: } & \frac{R_4}{2} \\
\text{K-HP: } & 0 \\
\text{K-BP: } & \frac{C_L R_4 R_L g_m}{2C_1 + C_L R_4 g_m + 2C_L R_L g_m} \\
\text{QZ: } & 0 \\
\text{WZ: } & \text{None}
\end{aligned}$$

8.8 INVALID-NUMER-8 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_L g_m (C_4 R_4 s + 1)}{(C_1 s + g_m) (C_4 R_4 s + 2C_4 R_L s + 1)}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{C_1 C_4 \sqrt{\frac{g_m}{C_1 C_4 (R_4 + 2R_L)}} (R_4 + 2R_L)}{C_1 + C_4 R_4 g_m + 2C_4 R_L g_m} \\
\text{wo: } & \sqrt{\frac{g_m}{C_1 C_4 (R_4 + 2R_L)}} \\
\text{bandwidth: } & \frac{C_1 + C_4 R_4 g_m + 2C_4 R_L g_m}{C_1 C_4 (R_4 + 2R_L)} \\
\text{K-LP: } & R_L \\
\text{K-HP: } & 0 \\
\text{K-BP: } & \frac{C_4 R_4 R_L g_m}{C_1 + C_4 R_4 g_m + 2C_4 R_L g_m} \\
\text{QZ: } & 0 \\
\text{Wz: } & \text{None}
\end{aligned}$$

8.9 INVALID-NUMER-9 $Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_L R_L s + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_L R_4 s + 2C_L R_L s + 2)}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{\sqrt{2} C_1 C_L R_1 \sqrt{\frac{R_1 g_m + 1}{C_1 C_L R_1 (R_4 + 2R_L)}} (R_4 + 2R_L)}{2C_1 R_1 + C_L R_1 R_4 g_m + 2C_L R_1 R_L g_m + C_L R_4 + 2C_L R_L} \\
\text{wo: } & \sqrt{2} \sqrt{\frac{R_1 g_m + 1}{C_1 C_L R_1 (R_4 + 2R_L)}} \\
\text{bandwidth: } & \frac{2C_1 R_1 + C_L R_1 R_4 g_m + 2C_L R_1 R_L g_m + C_L R_4 + 2C_L R_L}{C_1 C_L R_1 (R_4 + 2R_L)} \\
\text{K-LP: } & \frac{R_1 R_4 g_m}{2(R_1 g_m + 1)} \\
\text{K-HP: } & 0 \\
\text{K-BP: } & \frac{C_L R_1 R_4 R_L g_m}{2C_1 R_1 + C_L R_1 R_4 g_m + 2C_L R_1 R_L g_m + C_L R_4 + 2C_L R_L} \\
\text{QZ: } & 0 \\
\text{Wz: } & \text{None}
\end{aligned}$$

8.10 INVALID-NUMER-10 $Z(s) = \left(\infty, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L \right)$

$$H(s) = \frac{R_1 R_L g_m (C_4 R_4 s + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 R_4 s + 2C_4 R_L s + 1)}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{C_1 C_4 R_1 \sqrt{\frac{R_1 g_m + 1}{C_1 C_4 R_1 (R_4 + 2R_L)}} (R_4 + 2R_L)}{C_1 R_1 + C_4 R_1 R_4 g_m + 2C_4 R_1 R_L g_m + C_4 R_4 + 2C_4 R_L} \\
\text{wo: } & \sqrt{\frac{R_1 g_m + 1}{C_1 C_4 R_1 (R_4 + 2R_L)}} \\
\text{bandwidth: } & \frac{C_1 R_1 + C_4 R_1 R_4 g_m + 2C_4 R_1 R_L g_m + C_4 R_4 + 2C_4 R_L}{C_1 C_4 R_1 (R_4 + 2R_L)} \\
\text{K-LP: } & \frac{R_1 R_L g_m}{R_1 g_m + 1} \\
\text{K-HP: } & 0 \\
\text{K-BP: } & \frac{C_4 R_1 R_4 R_L g_m}{C_1 R_1 + C_4 R_1 R_4 g_m + 2C_4 R_1 R_L g_m + C_4 R_4 + 2C_4 R_L} \\
\text{QZ: } & 0 \\
\text{Wz: } & \text{None}
\end{aligned}$$

8.11 INVALID-NUMER-11 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 R_1 s + 1)}{(C_L R_4 s + 2) (C_1 R_1 g_m s + C_1 s + g_m)}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{\sqrt{2} C_1 C_L R_4 \sqrt{\frac{g_m}{C_1 C_L R_4 (R_1 g_m + 1)}} (R_1 g_m + 1)}{2C_1 R_1 g_m + 2C_1 + C_L R_4 g_m} \\
\text{wo: } & \sqrt{2} \sqrt{\frac{g_m}{C_1 C_L R_4 (R_1 g_m + 1)}} \\
\text{bandwidth: } & \frac{2C_1 R_1 g_m + 2C_1 + C_L R_4 g_m}{C_1 C_L R_4 (R_1 g_m + 1)} \\
\text{K-LP: } & \frac{R_4}{2} \\
\text{K-HP: } & 0 \\
\text{K-BP: } & \frac{C_1 R_1 R_4 g_m}{2C_1 R_1 g_m + 2C_1 + C_L R_4 g_m} \\
\text{QZ: } & 0 \\
\text{Wz: } & \text{None}
\end{aligned}$$

8.12 INVALID-NUMER-12 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_4 R_L g_m (C_1 R_1 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_L R_4 R_L s + R_4 + 2R_L)}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{C_1 C_L R_4 R_L \sqrt{\frac{g_m (R_4 + 2R_L)}{C_1 C_L R_4 R_L (R_1 g_m + 1)}} (R_1 g_m + 1)}{C_1 R_1 R_4 g_m + 2C_1 R_1 R_L g_m + C_1 R_4 + 2C_1 R_L + C_L R_4 R_L g_m} \\
\text{wo: } & \sqrt{\frac{g_m (R_4 + 2R_L)}{C_1 C_L R_4 R_L (R_1 g_m + 1)}} \\
\text{bandwidth: } & \frac{C_1 R_1 R_4 g_m + 2C_1 R_1 R_L g_m + C_1 R_4 + 2C_1 R_L + C_L R_4 R_L g_m}{C_1 C_L R_4 R_L (R_1 g_m + 1)} \\
\text{K-LP: } & \frac{R_4 R_L}{R_4 + 2R_L} \\
\text{K-HP: } & 0 \\
\text{K-BP: } & \frac{C_1 R_1 R_4 R_L g_m}{C_1 R_1 R_4 g_m + 2C_1 R_1 R_L g_m + C_1 R_4 + 2C_1 R_L + C_L R_4 R_L g_m} \\
\text{QZ: } & 0 \\
\text{Wz: } & \text{None}
\end{aligned}$$

8.13 INVALID-NUMER-13 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_L \right)$

$$H(s) = \frac{R_L g_m (C_1 R_1 s + 1)}{(2C_4 R_L s + 1) (C_1 R_1 g_m s + C_1 s + g_m)}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{\sqrt{2} C_1 C_4 R_L \sqrt{\frac{g_m}{C_1 C_4 R_L (R_1 g_m + 1)}} (R_1 g_m + 1)}{C_1 R_1 g_m + C_1 + 2C_4 R_L g_m} \\
\text{wo: } & \frac{\sqrt{2} \sqrt{\frac{g_m}{C_1 C_4 R_L (R_1 g_m + 1)}}}{2} \\
\text{bandwidth: } & \frac{C_1 R_1 g_m + C_1 + 2C_4 R_L g_m}{2C_1 C_4 R_L (R_1 g_m + 1)} \\
\text{K-LP: } & R_L \\
\text{K-HP: } & 0 \\
\text{K-BP: } & \frac{C_1 R_1 R_L g_m}{C_1 R_1 g_m + C_1 + 2C_4 R_L g_m} \\
\text{QZ: } & 0 \\
\text{Wz: } & \text{None}
\end{aligned}$$

8.14 INVALID-NUMER-14 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L g_m (C_1 R_1 s + 1)}{(2C_4 R_L s + C_L R_L s + 1) (C_1 R_1 g_m s + C_1 s + g_m)}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{C_1 R_L \sqrt{\frac{g_m}{C_1 R_L (2C_4 R_1 g_m + 2C_4 + C_L R_1 g_m + C_L)}} (2C_4 R_1 g_m + 2C_4 + C_L R_1 g_m + C_L)}{C_1 R_1 g_m + C_1 + 2C_4 R_L g_m + C_L R_L g_m} \\
\text{wo: } & \sqrt{\frac{g_m}{C_1 R_L (2C_4 R_1 g_m + 2C_4 + C_L R_1 g_m + C_L)}} \\
\text{bandwidth: } & \frac{C_1 R_1 g_m + C_1 + 2C_4 R_L g_m + C_L R_L g_m}{C_1 R_L (2C_4 R_1 g_m + 2C_4 + C_L R_1 g_m + C_L)} \\
\text{K-LP: } & R_L \\
\text{K-HP: } & 0 \\
\text{K-BP: } & \frac{C_1 R_1 R_L g_m}{C_1 R_1 g_m + C_1 + 2C_4 R_L g_m + C_L R_L g_m} \\
\text{QZ: } & 0 \\
\text{Wz: } & \text{None}
\end{aligned}$$

8.15 INVALID-NUMER-15 $Z(s) = \left(\infty, \infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_L \right)$

$$H(s) = \frac{R_4 R_L g_m (C_1 R_1 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 R_4 R_L s + R_4 + 2R_L)}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{\sqrt{2} C_1 C_4 R_4 R_L \sqrt{\frac{g_m (R_4 + 2R_L)}{C_1 C_4 R_4 R_L (R_1 g_m + 1)}} (R_1 g_m + 1)}{C_1 R_1 R_4 g_m + 2C_1 R_1 R_L g_m + C_1 R_4 + 2C_1 R_L + 2C_4 R_4 R_L g_m} \\
\text{wo: } & \frac{\sqrt{2} \sqrt{\frac{g_m (R_4 + 2R_L)}{C_1 C_4 R_4 R_L (R_1 g_m + 1)}}}{2} \\
\text{bandwidth: } & \frac{C_1 R_1 R_4 g_m + 2C_1 R_1 R_L g_m + C_1 R_4 + 2C_1 R_L + 2C_4 R_4 R_L g_m}{2C_1 C_4 R_4 R_L (R_1 g_m + 1)} \\
\text{K-LP: } & \frac{R_4 R_L}{R_4 + 2R_L} \\
\text{K-HP: } & 0 \\
\text{K-BP: } & \frac{C_1 R_1 R_4 R_L g_m}{C_1 R_1 R_4 g_m + 2C_1 R_1 R_L g_m + C_1 R_4 + 2C_1 R_L + 2C_4 R_4 R_L g_m} \\
\text{QZ: } & 0 \\
\text{Wz: } & \text{None}
\end{aligned}$$

8.16 INVALID-NUMER-16 $Z(s) = \left(\infty, \infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 R_1 s + 1)}{(2C_4 R_4 s + C_L R_4 s + 2) (C_1 R_1 g_m s + C_1 s + g_m)}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{\sqrt{2}C_1R_4\sqrt{\frac{g_m}{C_1R_4(2C_4R_1g_m+2C_4+C_LR_1g_m+C_L)}}(2C_4R_1g_m+2C_4+C_LR_1g_m+C_L)}{2C_1R_1g_m+2C_1+2C_4R_4g_m+C_LR_4g_m} \\
\text{wo: } & \sqrt{2}\sqrt{\frac{g_m}{C_1R_4(2C_4R_1g_m+2C_4+C_LR_1g_m+C_L)}} \\
\text{bandwidth: } & \frac{2C_1R_1g_m+2C_1+2C_4R_4g_m+C_LR_4g_m}{C_1R_4(2C_4R_1g_m+2C_4+C_LR_1g_m+C_L)} \\
\text{K-LP: } & \frac{R_4}{2} \\
\text{K-HP: } & 0 \\
\text{K-BP: } & \frac{C_1R_1R_4g_m}{2C_1R_1g_m+2C_1+2C_4R_4g_m+C_LR_4g_m} \\
\text{QZ: } & 0 \\
\text{WZ: } & \text{None}
\end{aligned}$$

8.17 INVALID-NUMER-17 $Z(s) = \left(\infty, \infty, \infty, \infty, R_4 + \frac{1}{C_4s}, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{R_4R_Lg_m(C_1R_1s+1)}{(C_1R_1g_ms+C_1s+g_m)(2C_4R_4R_Ls+C_LR_4R_Ls+R_4+2R_L)}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{C_1R_4R_L\sqrt{\frac{g_m(R_4+2R_L)}{C_1R_4R_L(2C_4R_1g_m+2C_4+C_LR_1g_m+C_L)}}(2C_4R_1g_m+2C_4+C_LR_1g_m+C_L)}{C_1R_1R_4g_m+2C_1R_1R_Lg_m+C_1R_4+2C_1R_L+2C_4R_4R_Lg_m+C_LR_4R_Lg_m} \\
\text{wo: } & \sqrt{\frac{g_m(R_4+2R_L)}{C_1R_4R_L(2C_4R_1g_m+2C_4+C_LR_1g_m+C_L)}} \\
\text{bandwidth: } & \frac{C_1R_1R_4g_m+2C_1R_1R_Lg_m+C_1R_4+2C_1R_L+2C_4R_4R_Lg_m+C_LR_4R_Lg_m}{C_1R_4R_L(2C_4R_1g_m+2C_4+C_LR_1g_m+C_L)} \\
\text{K-LP: } & \frac{R_4R_L}{R_4+2R_L} \\
\text{K-HP: } & 0 \\
\text{K-BP: } & \frac{C_1R_1R_4R_Lg_m}{C_1R_1R_4g_m+2C_1R_1R_Lg_m+C_1R_4+2C_1R_L+2C_4R_4R_Lg_m+C_LR_4R_Lg_m} \\
\text{QZ: } & 0 \\
\text{WZ: } & \text{None}
\end{aligned}$$

9 INVALID-WZ

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

$$H(s) = \frac{L_1 g_m (C_4 R_4 s + 1) (C_L R_L s + 1)}{(L_1 g_m s + 1) (C_4 C_L R_4 s + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_4 C_L L_1 g_m \sqrt{\frac{2 C_4 + C_L}{C_4 C_L L_1 g_m (R_4 + 2 R_L)}} (R_4 + 2 R_L)}{C_4 C_L R_4 + 2 C_4 C_L R_L + 2 C_4 L_1 g_m + C_L L_1 g_m} \\ \text{wo: } & \sqrt{\frac{2 C_4 + C_L}{C_4 C_L L_1 g_m (R_4 + 2 R_L)}} \\ \text{bandwidth: } & \frac{C_4 C_L R_4 + 2 C_4 C_L R_L + 2 C_4 L_1 g_m + C_L L_1 g_m}{C_4 C_L L_1 g_m (R_4 + 2 R_L)} \\ \text{K-LP: } & \frac{L_1 g_m}{2 C_4 + C_L} \\ \text{K-HP: } & \frac{R_4 R_L}{R_4 + 2 R_L} \\ \text{K-BP: } & \frac{L_1 g_m (C_4 R_4 + C_L R_L)}{C_4 C_L R_4 + 2 C_4 C_L R_L + 2 C_4 L_1 g_m + C_L L_1 g_m} \\ \text{QZ: } & \frac{C_4 C_L R_4 R_L \sqrt{\frac{2 C_4 + C_L}{C_4 C_L L_1 g_m (R_4 + 2 R_L)}}}{C_4 R_4 + C_L R_L} \\ \text{Wz: } & \sqrt{\frac{1}{C_4 C_L R_4 R_L}} \end{aligned}$$

9.2 INVALID-WZ-2 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 R_1 s + 1) (C_L R_L s + 1)}{(C_L R_4 s + 2 C_L R_L s + 2) (C_1 R_1 g_m s + C_1 s + g_m)}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{\sqrt{2} C_1 C_L \sqrt{\frac{g_m}{C_1 C_L (R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L)}} (R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L)}{2 C_1 R_1 g_m + 2 C_1 + C_L R_4 g_m + 2 C_L R_L g_m} \\ \text{wo: } & \sqrt{2} \sqrt{\frac{g_m}{C_1 C_L (R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L)}} \\ \text{bandwidth: } & \frac{2 C_1 R_1 g_m + 2 C_1 + C_L R_4 g_m + 2 C_L R_L g_m}{C_1 C_L (R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L)} \\ \text{K-LP: } & \frac{R_4}{2} \\ \text{K-HP: } & \frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L} \\ \text{K-BP: } & \frac{R_4 g_m (C_1 R_1 + C_L R_L)}{2 C_1 R_1 g_m + 2 C_1 + C_L R_4 g_m + 2 C_L R_L g_m} \\ \text{QZ: } & \frac{\sqrt{2} C_1 C_L R_1 R_L \sqrt{\frac{g_m}{C_1 C_L (R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L)}}}{C_1 R_1 + C_L R_L} \end{aligned}$$

$$W_Z: \sqrt{\frac{1}{C_1 C_L R_1 R_L}}$$

9.3 INVALID-WZ-3 $Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_L \right)$

$$H(s) = \frac{R_L g_m (C_1 R_1 s + 1) (C_4 R_4 s + 1)}{(C_4 R_4 s + 2 C_4 R_L s + 1) (C_1 R_1 g_m s + C_1 s + g_m)}$$

Parameters:

$$Q: \frac{C_1 C_4 \sqrt{\frac{g_m}{C_1 C_4 (R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L)}} (R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L)}{C_1 R_1 g_m + C_1 + C_4 R_4 g_m + 2 C_4 R_L g_m}$$

$$W_O: \sqrt{\frac{g_m}{C_1 C_4 (R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L)}}$$

$$\text{bandwidth: } \frac{C_1 R_1 g_m + C_1 + C_4 R_4 g_m + 2 C_4 R_L g_m}{C_1 C_4 (R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L)}$$

$$K\text{-LP: } R_L$$

$$K\text{-HP: } \frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L}$$

$$K\text{-BP: } \frac{R_L g_m (C_1 R_1 + C_4 R_4)}{C_1 R_1 g_m + C_1 + C_4 R_4 g_m + 2 C_4 R_L g_m}$$

$$Q_Z: \frac{C_1 C_4 R_1 R_4 \sqrt{\frac{g_m}{C_1 C_4 (R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L)}}}{C_1 R_1 + C_4 R_4}$$

$$W_Z: \sqrt{\frac{1}{C_1 C_4 R_1 R_4}}$$

10 INVALID-ORDER

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

$$H(s) = \frac{R_1 R_4 R_L g_m}{(R_4 + 2 R_L) (R_1 g_m + 1)}$$

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

$$H(s) = \frac{R_1 R_4 g_m}{(R_1 g_m + 1) (C_L R_4 s + 2)}$$

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

$$H(s) = \frac{R_1 R_4 R_L g_m}{(R_1 g_m + 1) (C_L R_4 R_L s + R_4 + 2R_L)}$$

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

$$H(s) = \frac{R_1 R_4 g_m (C_L R_L s + 1)}{(R_1 g_m + 1) (C_L R_4 s + 2C_L R_L s + 2)}$$

10.5 INVALID-ORDER-5 $Z(s) = (L_1 s, \infty, \infty, \infty, \infty, R_L)$

$$H(s) = \frac{R_1 R_L g_m}{(R_1 g_m + 1) (2C_4 R_L s + 1)}$$

10.6 INVALID-ORDER-6 $Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m}{s (2C_4 + C_L) (R_1 g_m + 1)}$$

10.7 INVALID-ORDER-7 $Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_1 R_L g_m}{(R_1 g_m + 1) (2C_4 R_L s + C_L R_L s + 1)}$$

10.8 INVALID-ORDER-8 $Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_L R_L s + 1)}{s (R_1 g_m + 1) (2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.9 INVALID-ORDER-9 $Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_L L_L s^2 + 1)}{s (R_1 g_m + 1) (2C_4 C_L L_L s^2 + 2C_4 + C_L)}$$

10.10 INVALID-ORDER-10 $Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_1 g_m s}{(R_1 g_m + 1) (2C_4 L_L s^2 + C_L L_L s^2 + 1)}$$

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

$$H(s) = \frac{R_1 g_m (C_L L_L s^2 + C_L R_L s + 1)}{s (R_1 g_m + 1) (2C_4 C_L L_L s^2 + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.12 INVALID-ORDER-12 $Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_1 g_m (C_L L_L R_L s^2 + L_L s + R_L)}{(R_1 g_m + 1) (2C_4 C_L L_L R_L s^3 + 2C_4 L_L s^2 + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

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

$$H(s) = \frac{R_1 R_L g_m (C_L L_L s^2 + 1)}{(R_1 g_m + 1) (2C_4 C_L L_L R_L s^3 + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.14 INVALID-ORDER-14 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_1 R_4 R_L g_m}{(R_1 g_m + 1)(2C_4 R_4 R_L s + R_4 + 2R_L)}$$

10.15 INVALID-ORDER-15 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 R_4 g_m}{(R_1 g_m + 1)(2C_4 R_4 s + C_L R_4 s + 2)}$$

10.16 INVALID-ORDER-16 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_1 R_4 R_L g_m}{(R_1 g_m + 1)(2C_4 R_4 R_L s + C_L R_4 R_L s + R_4 + 2R_L)}$$

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

$$H(s) = \frac{R_1 R_4 g_m (C_L L_L s^2 + 1)}{(R_1 g_m + 1)(2C_4 C_L L_L R_4 s^3 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

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

$$H(s) = \frac{R_1 R_4 g_m (C_L L_L s^2 + C_L R_L s + 1)}{(R_1 g_m + 1)(2C_4 C_L L_L R_4 s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

10.19 INVALID-ORDER-19 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_L L_L R_L s^2 + L_L s + R_L)}{(R_1 g_m + 1)(2C_4 C_L L_L R_4 R_L s^3 + 2C_4 L_L R_4 s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + 2L_L s + R_4 + 2R_L)}$$

$$10.20 \quad \text{INVALID-ORDER-20} \quad Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_1 R_4 R_L g_m (C_L L_L s^2 + 1)}{(R_1 g_m + 1) (2C_4 C_L L_L R_4 R_L s^3 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2R_L)}$$

$$10.21 \quad \text{INVALID-ORDER-21} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_4 R_4 s + 1)}{(R_1 g_m + 1) (C_4 R_4 s + 2C_4 R_L s + 1)}$$

$$10.22 \quad \text{INVALID-ORDER-22} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 g_m (C_4 R_4 s + 1)}{s (R_1 g_m + 1) (C_4 C_L R_4 s + 2C_4 + C_L)}$$

$$10.23 \quad \text{INVALID-ORDER-23} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 g_m (C_4 R_4 s + 1) (C_L R_L s + 1)}{s (R_1 g_m + 1) (C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

$$10.24 \quad \text{INVALID-ORDER-24} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 g_m (C_4 R_4 s + 1) (C_L L_L s^2 + 1)}{s (R_1 g_m + 1) (2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

$$10.25 \quad \text{INVALID-ORDER-25} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L R_1 g_m s (C_4 R_4 s + 1)}{(R_1 g_m + 1) (C_4 C_L L_L R_4 s^3 + 2C_4 L_L s^2 + C_4 R_4 s + C_L L_L s^2 + 1)}$$

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

$$H(s) = \frac{R_1 g_m (C_4 R_4 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (R_1 g_m + 1) (2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

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

$$H(s) = \frac{L_L R_1 R_L g_m s (C_4 R_4 s + 1)}{(R_1 g_m + 1) (C_4 C_L L_L R_4 R_L s^3 + C_4 L_L R_4 s^2 + 2C_4 L_L R_L s^2 + C_4 R_4 R_L s + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.28 INVALID-ORDER-28 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_1 g_m (C_4 R_4 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(R_1 g_m + 1) (C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + 2C_4 L_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

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

$$H(s) = \frac{R_1 R_L g_m (C_4 R_4 s + 1) (C_L L_L s^2 + 1)}{(R_1 g_m + 1) (C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

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

$$H(s) = \frac{R_1 g_m (C_4 L_4 s^2 + 1)}{s (R_1 g_m + 1) (C_4 C_L L_4 s^2 + 2C_4 + C_L)}$$

10.31 INVALID-ORDER-31 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_1 R_L g_m (C_4 L_4 s^2 + 1)}{(R_1 g_m + 1) (C_4 C_L L_4 R_L s^3 + C_4 L_4 s^2 + 2C_4 R_L s + C_L R_L s + 1)}$$

10.32 INVALID-ORDER-32 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_4 L_4 s^2 + 1) (C_L R_L s + 1)}{s (R_1 g_m + 1) (C_4 C_L L_4 s^2 + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

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

$$H(s) = \frac{R_1 g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{s (R_1 g_m + 1) (C_4 C_L L_4 s^2 + 2C_4 C_L L_L s^2 + 2C_4 + C_L)}$$

10.34 INVALID-ORDER-34 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_1 g_m s (C_4 L_4 s^2 + 1)}{(R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + C_4 L_4 s^2 + 2C_4 L_L s^2 + C_L L_L s^2 + 1)}$$

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

$$H(s) = \frac{R_1 g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (R_1 g_m + 1) (C_4 C_L L_4 s^2 + 2C_4 C_L L_L s^2 + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

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

$$H(s) = \frac{L_L R_1 R_L g_m s (C_4 L_4 s^2 + 1)}{(R_1 g_m + 1) (C_4 C_L L_4 L_L R_L s^4 + C_4 L_4 L_L s^3 + C_4 L_4 R_L s^2 + 2 C_4 L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.37 INVALID-ORDER-37 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_1 g_m (C_4 L_4 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + 2 C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + 2 C_4 R_L s + C_L L_L s^2 + 1)}$$

10.38 INVALID-ORDER-38 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_1 R_L g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_L s^3 + 2 C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2 C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.39 INVALID-ORDER-39 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_1 g_m s}{(R_1 g_m + 1) (2 C_4 L_4 s^2 + C_L L_4 s^2 + 2)}$$

10.40 INVALID-ORDER-40 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_1 g_m s (C_L R_L s + 1)}{(R_1 g_m + 1) (2 C_4 C_L L_4 R_L s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L R_L s + 2)}$$

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

$$H(s) = \frac{L_4 R_1 g_m s (C_L L_L s^2 + 1)}{(R_1 g_m + 1) (2C_4 C_L L_4 L_L s^4 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + 2)}$$

10.42 INVALID-ORDER-42 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_4 L_L R_1 g_m s}{(R_1 g_m + 1) (2C_4 L_4 L_L s^2 + C_L L_4 L_L s^2 + L_4 + 2L_L)}$$

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

$$H(s) = \frac{L_4 R_1 g_m s (C_L L_L s^2 + C_L R_L s + 1)}{(R_1 g_m + 1) (2C_4 C_L L_4 L_L s^4 + 2C_4 C_L L_4 R_L s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + 2C_L R_L s + 2)}$$

10.44 INVALID-ORDER-44 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_4 R_1 g_m s (C_L L_L R_L s^2 + L_L s + R_L)}{(R_1 g_m + 1) (2C_4 C_L L_4 L_L R_L s^4 + 2C_4 L_4 L_L s^3 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + 2C_L L_L R_L s^2 + L_4 s + 2L_L s + 2R_L)}$$

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

$$H(s) = \frac{L_4 R_1 R_L g_m s (C_L L_L s^2 + 1)}{(R_1 g_m + 1) (2C_4 C_L L_4 L_L R_L s^4 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_4 R_L s^2 + 2C_L L_L R_L s^2 + L_4 s + 2R_L)}$$

10.46 INVALID-ORDER-46 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (R_1 g_m + 1) (C_4 C_L L_4 s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

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

$$H(s) = \frac{R_1 R_L g_m (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(R_1 g_m + 1) (C_4 C_L L_4 R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + C_L R_L s + 1)}$$

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

$$H(s) = \frac{R_1 g_m (C_L R_L s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (R_1 g_m + 1) (C_4 C_L L_4 s^2 + C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

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

$$H(s) = \frac{R_1 g_m (C_L L_L s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (R_1 g_m + 1) (C_4 C_L L_4 s^2 + 2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

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

$$H(s) = \frac{L_L R_1 g_m s (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + C_4 L_4 s^2 + 2C_4 L_L s^2 + C_4 R_4 s + C_L L_L s^2 + 1)}$$

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

$$H(s) = \frac{R_1 g_m (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (R_1 g_m + 1) (C_4 C_L L_4 s^2 + 2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

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

$$H(s) = \frac{L_L R_1 R_L g_m s (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(R_1 g_m + 1) (C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 L_L s^3 + C_4 L_4 R_L s^2 + C_4 L_L R_4 s^2 + 2C_4 L_L R_L s^2 + C_4 R_4 R_L s + C_L L_L R_L s^2 + L_L s + R_L)}$$

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

$$H(s) = \frac{R_1 g_m (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2C_4 L_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

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

$$H(s) = \frac{R_1 R_L g_m (C_L L_L s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_L s^3 + C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.55 INVALID-ORDER-55 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_1 R_4 g_m s (C_L R_L s + 1)}{(R_1 g_m + 1) (2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L R_4 R_L s + 2L_4 s + 2R_4)}$$

10.56 INVALID-ORDER-56 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_1 R_4 g_m s (C_L L_L s^2 + 1)}{(R_1 g_m + 1) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_L R_4 s^2 + 2L_4 s + 2R_4)}$$

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

$$H(s) = \frac{L_4 R_1 R_4 g_m s (C_L L_L s^2 + C_L R_L s + 1)}{(R_1 g_m + 1) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L L_L R_4 s^2 + 2C_L R_4 R_L s + 2L_4 s + 2R_4)}$$

$$10.58 \quad \text{INVALID-ORDER-58} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_4 R_1 R_4 g_m s (C_L L_L R_L s^2 + L_L s + R_L)}{(R_1 g_m + 1) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + 2C_L L_L R_4 R_L s^2 + 2L_4 L_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2L_L R_4 s + 2R_4)}$$

$$10.59 \quad \text{INVALID-ORDER-59} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_4 R_1 R_4 R_L g_m s (C_L L_L s^2 + 1)}{(R_1 g_m + 1) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + C_L L_4 R_4 R_L s^2 + 2C_L L_L R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

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

$$H(s) = \frac{R_1 g_m (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(R_1 g_m + 1) (C_4 C_L L_4 R_4 s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2)}$$

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

$$H(s) = \frac{R_1 R_L g_m (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(R_1 g_m + 1) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 R_L s^2 + C_L R_4 R_L s + L_4 s + R_4 + 2R_L)}$$

$$10.62 \quad \text{INVALID-ORDER-62} \quad Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1} + \frac{1}{L_1 s}}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 g_m (C_L R_L s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(R_1 g_m + 1) (C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

$$10.63 \quad \text{INVALID-ORDER-63} \quad Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1} + \frac{1}{L_1 s}}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 g_m (C_L L_L s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(R_1 g_m + 1) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

$$10.64 \quad \text{INVALID-ORDER-64} \quad Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1} + \frac{1}{L_1 s}}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L R_1 g_m s (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + L_4 s + 2L_L s + R_4)}$$

$$10.65 \quad \text{INVALID-ORDER-65} \quad Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1} + \frac{1}{L_1 s}}, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 g_m (C_L L_L s^2 + C_L R_L s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(R_1 g_m + 1) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

$$10.66 \quad \text{INVALID-ORDER-66} \quad Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1} + \frac{1}{L_1 s}}, \infty, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_L R_1 R_L g_m s (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_L s^3 + C_L L_L R_4 R_L s^2 + L_4 L_L s^2 + L_4 R_L s + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

$$10.67 \quad \text{INVALID-ORDER-67} \quad Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1} + \frac{1}{L_1 s}}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{R_1 g_m (C_4 L_4 R_4 s^2 + L_4 s + R_4) (C_L L_L R_L s^2 + L_L s + R_L)}{(R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + L_4 s + 2L_L s + R_4 + 2R_L)}$$

$$10.68 \quad \text{INVALID-ORDER-68} \quad Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1} + \frac{1}{L_1 s}}, \infty, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_L L_L s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_4 R_L s^2 + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + C_L R_4 R_L s + L_4 s + 2L_L s + R_4 + 2R_L)}$$

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

$$H(s) = \frac{R_1 R_4 g_m (C_4 L_4 s^2 + 1)}{(R_1 g_m + 1) (C_4 C_L L_4 R_4 s^3 + 2C_4 L_4 s^2 + 2C_4 R_4 s + C_L R_4 s + 2)}$$

$$10.70 \quad \text{INVALID-ORDER-70} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \infty, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_1 R_4 R_L g_m (C_4 L_4 s^2 + 1)}{(R_1 g_m + 1) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 R_4 R_L s + C_L R_4 R_L s + R_4 + 2R_L)}$$

$$10.71 \quad \text{INVALID-ORDER-71} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 R_4 g_m (C_4 L_4 s^2 + 1) (C_L R_L s + 1)}{(R_1 g_m + 1) (C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 L_4 s^2 + 2C_4 R_4 s + C_L R_4 s + 2C_L R_L s + 2)}$$

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

$$H(s) = \frac{R_1 R_4 g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(R_1 g_m + 1) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_L R_4 s^3 + 2C_4 L_4 s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

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

$$H(s) = \frac{L_L R_1 R_4 g_m s (C_4 L_4 s^2 + 1)}{(R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_L R_4 s^2 + C_L L_L R_4 s^2 + 2L_L s + R_4)}$$

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

$$H(s) = \frac{R_1 R_4 g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(R_1 g_m + 1) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 C_L L_L R_4 s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 L_4 s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

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

$$H(s) = \frac{L_L R_1 R_4 R_L g_m s (C_4 L_4 s^2 + 1)}{(R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + 2C_4 L_L R_4 R_L s^2 + C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

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

$$H(s) = \frac{R_1 R_4 g_m (C_4 L_4 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + 2C_4 C_L L_L R_4 R_L s^3 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 L_L R_4 s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2)}$$

$$10.77 \quad \text{INVALID-ORDER-77} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \infty, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_1 R_4 R_L g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + 2 C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + 2 C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + C_L R_4 R_L s)}$$

$$10.78 \quad \text{INVALID-ORDER-78} \quad Z(s) = \left(\frac{R_1 \left(L_1 s + \frac{1}{C_1 s} \right)}{L_1 s + R_1 + \frac{1}{C_1 s}}, \infty, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{L_1 R_4 R_L g_m s}{(R_4 + 2 R_L) (L_1 g_m s + 1)}$$

$$10.79 \quad \text{INVALID-ORDER-79} \quad Z(s) = \left(\frac{R_1 \left(L_1 s + \frac{1}{C_1 s} \right)}{L_1 s + R_1 + \frac{1}{C_1 s}}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 R_4 g_m s (C_L L_L s^2 + 1)}{(L_1 g_m s + 1) (2 C_L L_L s^2 + C_L R_4 s + 2)}$$

$$10.80 \quad \text{INVALID-ORDER-80} \quad Z(s) = \left(\frac{R_1 \left(L_1 s + \frac{1}{C_1 s} \right)}{L_1 s + R_1 + \frac{1}{C_1 s}}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_1 L_L R_4 g_m s^2}{(L_1 g_m s + 1) (C_L L_L R_4 s^2 + 2 L_L s + R_4)}$$

$$10.81 \quad \text{INVALID-ORDER-81} \quad Z(s) = \left(\frac{R_1 \left(L_1 s + \frac{1}{C_1 s} \right)}{L_1 s + R_1 + \frac{1}{C_1 s}}, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 R_4 g_m s (C_L L_L s^2 + C_L R_L s + 1)}{(L_1 g_m s + 1) (2 C_L L_L s^2 + C_L R_4 s + 2 C_L R_L s + 2)}$$

$$10.82 \quad \text{INVALID-ORDER-82} \quad Z(s) = \left(\frac{R_1 \left(L_1 s + \frac{1}{C_1 s} \right)}{L_1 s + R_1 + \frac{1}{C_1 s}}, \infty, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_1 L_L R_4 R_L g_m s^2}{(L_1 g_m s + 1) (C_L L_L R_4 R_L s^2 + L_L R_4 s + 2 L_L R_L s + R_4 R_L)}$$

$$10.83 \quad \text{INVALID-ORDER-83} \quad Z(s) = \left(\frac{R_1 \left(L_1 s + \frac{1}{C_1 s} \right)}{L_1 s + R_1 + \frac{1}{C_1 s}}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_1 R_4 g_m s (C_L L_L R_L s^2 + L_L s + R_L)}{(L_1 g_m s + 1) (C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + 2 L_L s + R_4 + 2 R_L)}$$

$$10.84 \quad \text{INVALID-ORDER-84} \quad Z(s) = \left(\frac{R_1 \left(L_1 s + \frac{1}{C_1 s} \right)}{L_1 s + R_1 + \frac{1}{C_1 s}}, \infty, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_1 R_4 R_L g_m s (C_L L_L s^2 + 1)}{(L_1 g_m s + 1) (C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2 R_L)}$$

$$10.85 \quad \text{INVALID-ORDER-85} \quad Z(s) = \left(\infty, R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 g_m}{(2 C_4 + C_L) (L_1 g_m s + 1)}$$

$$10.86 \quad \text{INVALID-ORDER-86} \quad Z(s) = \left(\infty, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 g_m (C_L L_L s^2 + 1)}{(L_1 g_m s + 1) (2 C_4 C_L L_L s^2 + 2 C_4 + C_L)}$$

10.87 INVALID-ORDER-87 $Z(s) = \left(\infty, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_L g_m s^2}{(L_1 g_m s + 1)(2C_4 L_L s^2 + C_L L_L s^2 + 1)}$$

10.88 INVALID-ORDER-88 $Z(s) = \left(\infty, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m (C_L L_L s^2 + C_L R_L s + 1)}{(L_1 g_m s + 1)(2C_4 C_L L_L s^2 + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.89 INVALID-ORDER-89 $Z(s) = \left(\infty, R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_1 L_L R_L g_m s^2}{(L_1 g_m s + 1)(2C_4 L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.90 INVALID-ORDER-90 $Z(s) = \left(\infty, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_1 g_m s (C_L L_L R_L s^2 + L_L s + R_L)}{(L_1 g_m s + 1)(2C_4 C_L L_L R_L s^3 + 2C_4 L_L s^2 + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

10.91 INVALID-ORDER-91 $Z(s) = \left(\infty, R_2, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_1 R_L g_m s (C_L L_L s^2 + 1)}{(L_1 g_m s + 1)(2C_4 C_L L_L R_L s^3 + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.92 INVALID-ORDER-92 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_L R_L s + 1)}{(L_1 g_m s + 1) (2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + C_L R_4 s + 2C_L R_L s + 2)}$$

10.93 INVALID-ORDER-93 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_L L_L s^2 + 1)}{(L_1 g_m s + 1) (2C_4 C_L L_L R_4 s^3 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

10.94 INVALID-ORDER-94 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_L R_4 g_m s^2}{(L_1 g_m s + 1) (2C_4 L_L R_4 s^2 + C_L L_L R_4 s^2 + 2L_L s + R_4)}$$

10.95 INVALID-ORDER-95 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_L L_L s^2 + C_L R_L s + 1)}{(L_1 g_m s + 1) (2C_4 C_L L_L R_4 s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

10.96 INVALID-ORDER-96 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_1 L_L R_4 R_L g_m s^2}{(L_1 g_m s + 1) (2C_4 L_L R_4 R_L s^2 + C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

10.97 INVALID-ORDER-97 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_L L_L R_L s^2 + L_L s + R_L)}{(L_1 g_m s + 1) (2C_4 C_L L_L R_4 R_L s^3 + 2C_4 L_L R_4 s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + 2L_L s + R_4 + 2R_L)}$$

$$10.98 \quad \text{INVALID-ORDER-98} \quad Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_1 R_4 R_L g_m s (C_L L_L s^2 + 1)}{(L_1 g_m s + 1) (2C_4 C_L L_L R_4 R_L s^3 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2R_L)}$$

$$10.99 \quad \text{INVALID-ORDER-99} \quad Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_1 R_L g_m s (C_4 R_4 s + 1)}{(L_1 g_m s + 1) (C_4 C_L R_4 R_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L R_L s + 1)}$$

$$10.100 \quad \text{INVALID-ORDER-100} \quad Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 g_m (C_4 R_4 s + 1) (C_L L_L s^2 + 1)}{(L_1 g_m s + 1) (2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

$$10.101 \quad \text{INVALID-ORDER-101} \quad Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_1 L_L g_m s^2 (C_4 R_4 s + 1)}{(L_1 g_m s + 1) (C_4 C_L L_L R_4 s^3 + 2C_4 L_L s^2 + C_4 R_4 s + C_L L_L s^2 + 1)}$$

$$10.102 \quad \text{INVALID-ORDER-102} \quad Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 g_m (C_4 R_4 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(L_1 g_m s + 1) (2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.103 INVALID-ORDER-103 $Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_1 L_L R_L g_m s^2 (C_4 R_4 s + 1)}{(L_1 g_m s + 1) (C_4 C_L L_L R_4 R_L s^3 + C_4 L_L R_4 s^2 + 2 C_4 L_L R_L s^2 + C_4 R_4 R_L s + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.104 INVALID-ORDER-104 $Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_1 g_m s (C_4 R_4 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(L_1 g_m s + 1) (C_4 C_L L_L R_4 s^3 + 2 C_4 C_L L_L R_L s^3 + 2 C_4 L_L s^2 + C_4 R_4 s + 2 C_4 R_L s + C_L L_L s^2 + 1)}$$

10.105 INVALID-ORDER-105 $Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_1 R_L g_m s (C_4 R_4 s + 1) (C_L L_L s^2 + 1)}{(L_1 g_m s + 1) (C_4 C_L L_L R_4 s^3 + 2 C_4 C_L L_L R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 R_4 s + 2 C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

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

$$H(s) = \frac{L_1 R_L g_m s (C_4 L_4 s^2 + 1)}{(L_1 g_m s + 1) (C_4 L_4 s^2 + 2 C_4 R_L s + 1)}$$

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

$$H(s) = \frac{L_1 g_m (C_4 L_4 s^2 + 1)}{(L_1 g_m s + 1) (C_4 C_L L_4 s^2 + 2 C_4 + C_L)}$$

10.108 INVALID-ORDER-108 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_1 R_L g_m s (C_4 L_4 s^2 + 1)}{(L_1 g_m s + 1) (C_4 C_L L_4 R_L s^3 + C_4 L_4 s^2 + 2 C_4 R_L s + C_L R_L s + 1)}$$

10.109 INVALID-ORDER-109 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m (C_4 L_4 s^2 + 1) (C_L R_L s + 1)}{(L_1 g_m s + 1) (C_4 C_L L_4 s^2 + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

10.110 INVALID-ORDER-110 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(L_1 g_m s + 1) (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + 2 C_4 + C_L)}$$

10.111 INVALID-ORDER-111 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_L g_m s^2 (C_4 L_4 s^2 + 1)}{(L_1 g_m s + 1) (C_4 C_L L_4 L_L s^4 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + C_L L_L s^2 + 1)}$$

10.112 INVALID-ORDER-112 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(L_1 g_m s + 1) (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

$$10.113 \quad \text{INVALID-ORDER-113} \quad Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_1 L_L R_L g_m s^2 (C_4 L_4 s^2 + 1)}{(L_1 g_m s + 1) (C_4 C_L L_4 L_L R_L s^4 + C_4 L_4 L_L s^3 + C_4 L_4 R_L s^2 + 2 C_4 C_L L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L)}$$

$$10.114 \quad \text{INVALID-ORDER-114} \quad Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_1 g_m s (C_4 L_4 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(L_1 g_m s + 1) (C_4 C_L L_4 L_L s^4 + 2 C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + 2 C_4 R_L s + C_L L_L s^2 + 1)}$$

$$10.115 \quad \text{INVALID-ORDER-115} \quad Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_1 R_L g_m s (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(L_1 g_m s + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_L s^3 + 2 C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2 C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

$$10.116 \quad \text{INVALID-ORDER-116} \quad Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{L_1 L_4 R_L g_m s^2}{(L_1 g_m s + 1) (2 C_4 L_4 R_L s^2 + L_4 s + 2 R_L)}$$

$$10.117 \quad \text{INVALID-ORDER-117} \quad Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 L_4 g_m s^2}{(L_1 g_m s + 1) (2 C_4 L_4 s^2 + C_L L_4 s^2 + 2)}$$

10.118 INVALID-ORDER-118 $Z(s) = \left(\infty, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{L_1L_4R_Lg_ms^2}{(L_1g_ms+1)(2C_4L_4R_Ls^2+C_LR_4L_4s^2+L_4s+2R_L)}$$

10.119 INVALID-ORDER-119 $Z(s) = \left(\infty, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_1L_4g_ms^2(C_LR_Ls+1)}{(L_1g_ms+1)(2C_4C_LL_4R_Ls^3+2C_4L_4s^2+C_LL_4s^2+2C_LR_Ls+2)}$$

10.120 INVALID-ORDER-120 $Z(s) = \left(\infty, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_1L_4g_ms^2(C_LL_Ls^2+1)}{(L_1g_ms+1)(2C_4C_LL_4L_Ls^4+2C_4L_4s^2+C_LL_4s^2+2C_LL_Ls^2+2)}$$

10.121 INVALID-ORDER-121 $Z(s) = \left(\infty, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} \right)$

$$H(s) = \frac{L_1L_4L_Lg_ms^2}{(L_1g_ms+1)(2C_4L_4L_Ls^2+C_LL_4L_Ls^2+L_4+2L_L)}$$

10.122 INVALID-ORDER-122 $Z(s) = \left(\infty, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_1L_4g_ms^2(C_LL_Ls^2+C_LR_Ls+1)}{(L_1g_ms+1)(2C_4C_LL_4L_Ls^4+2C_4C_LL_4R_Ls^3+2C_4L_4s^2+C_LL_4s^2+2C_LL_Ls^2+2C_LR_Ls+2)}$$

10.123 INVALID-ORDER-123 $Z(s) = \left(\infty, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls+\frac{1}{R_L}+\frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_1L_4L_LR_Lg_ms^2}{(L_1g_ms+1)(2C_4L_4L_LR_Ls^2+C_LL_4L_LR_Ls^2+L_4L_Ls+L_4R_L+2L_LR_L)}$$

10.124 INVALID-ORDER-124 $Z(s) = \left(\infty, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$

$$H(s) = \frac{L_1L_4g_ms^2(C_LL_LR_Ls^2 + L_Ls + R_L)}{(L_1g_ms + 1)(2C_4C_LL_4L_LR_Ls^4 + 2C_4L_4L_Ls^3 + 2C_4L_4R_Ls^2 + C_LL_4L_Ls^3 + 2C_LL_LR_Ls^2 + L_4s + 2L_Ls + 2R_L)}$$

10.125 INVALID-ORDER-125 $Z(s) = \left(\infty, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$

$$H(s) = \frac{L_1L_4R_Lg_ms^2(C_LL_Ls^2 + 1)}{(L_1g_ms + 1)(2C_4C_LL_4L_LR_Ls^4 + 2C_4L_4R_Ls^2 + C_LL_4L_Ls^3 + C_LL_4R_Ls^2 + 2C_LL_LR_Ls^2 + L_4s + 2R_L)}$$

10.126 INVALID-ORDER-126 $Z(s) = \left(\infty, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_1R_Lg_ms(C_4L_4s^2 + C_4R_4s + 1)}{(L_1g_ms + 1)(C_4L_4s^2 + C_4R_4s + 2C_4R_Ls + 1)}$$

10.127 INVALID-ORDER-127 $Z(s) = \left(\infty, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_1g_ms(C_4L_4s^2 + C_4R_4s + 1)}{(L_1g_ms + 1)(C_4C_LL_4s^2 + C_4C_LR_4s + 2C_4 + C_L)}$$

10.128 INVALID-ORDER-128 $Z(s) = \left(\infty, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{L_1R_Lg_ms(C_4L_4s^2 + C_4R_4s + 1)}{(L_1g_ms + 1)(C_4C_LL_4R_Ls^3 + C_4C_LR_4R_Ls^2 + C_4L_4s^2 + C_4R_4s + 2C_4R_Ls + C_LR_Ls + 1)}$$

10.129 INVALID-ORDER-129 $Z(s) = \left(\infty, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_1g_m(C_LR_Ls + 1)(C_4L_4s^2 + C_4R_4s + 1)}{(L_1g_ms + 1)(C_4C_LL_4s^2 + C_4C_LR_4s + 2C_4C_LR_Ls + 2C_4 + C_L)}$$

10.130 INVALID-ORDER-130 $Z(s) = \left(\infty, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_1g_m(C_LL_Ls^2 + 1)(C_4L_4s^2 + C_4R_4s + 1)}{(L_1g_ms + 1)(C_4C_LL_4s^2 + 2C_4C_LL_Ls^2 + C_4C_LR_4s + 2C_4 + C_L)}$$

10.131 INVALID-ORDER-131 $Z(s) = \left(\infty, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1} \right)$

$$H(s) = \frac{L_1L_Lg_ms^2(C_4L_4s^2 + C_4R_4s + 1)}{(L_1g_ms + 1)(C_4C_LL_4L_Ls^4 + C_4C_LL_LR_4s^3 + C_4L_4s^2 + 2C_4L_Ls^2 + C_4R_4s + C_LL_Ls^2 + 1)}$$

10.132 INVALID-ORDER-132 $Z(s) = \left(\infty, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_1g_m(C_4L_4s^2 + C_4R_4s + 1)(C_LL_Ls^2 + C_LR_Ls + 1)}{(L_1g_ms + 1)(C_4C_LL_4s^2 + 2C_4C_LL_Ls^2 + C_4C_LR_4s + 2C_4C_LR_Ls + 2C_4 + C_L)}$$

10.133 INVALID-ORDER-133 $Z(s) = \left(\infty, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_1L_LR_Lg_ms^2(C_4L_4s^2 + C_4R_4s + 1)}{(L_1g_ms + 1)(C_4C_LL_4L_LR_Ls^4 + C_4C_LL_LR_4R_Ls^3 + C_4L_4L_Ls^3 + C_4L_4R_Ls^2 + C_4L_LR_4s^2 + 2C_4L_LR_Ls^2 + C_4R_4R_Ls + C_LL_LR_Ls^2 + L_Ls + R_L)}$$

10.134 INVALID-ORDER-134 $Z(s) = \left(\infty, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$

$$H(s) = \frac{L_1g_ms (C_4L_4s^2 + C_4R_4s + 1) (C_LL_LR_Ls^2 + L_Ls + R_L)}{(L_1g_ms + 1) (C_4C_LL_4L_Ls^4 + C_4C_LL_LR_4s^3 + 2C_4C_LL_LR_Ls^3 + C_4L_4s^2 + 2C_4L_Ls^2 + C_4R_4s + 2C_4R_Ls + C_LL_Ls^2 + 1)}$$

10.135 INVALID-ORDER-135 $Z(s) = \left(\infty, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$

$$H(s) = \frac{L_1R_Lg_ms (C_LL_Ls^2 + 1) (C_4L_4s^2 + C_4R_4s + 1)}{(L_1g_ms + 1) (C_4C_LL_4L_Ls^4 + C_4C_LL_4R_Ls^3 + C_4C_LL_LR_4s^3 + 2C_4C_LL_LR_Ls^3 + C_4C_LR_4R_Ls^2 + C_4L_4s^2 + C_4R_4s + 2C_4R_Ls + C_LL_Ls^2 + C_LR_Ls + 1)}$$

10.136 INVALID-ORDER-136 $Z(s) = \left(\infty, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_1L_4R_4R_Lg_ms^2}{(L_1g_ms + 1) (2C_4L_4R_4R_Ls^2 + L_4R_4s + 2L_4R_Ls + 2R_4R_L)}$$

10.137 INVALID-ORDER-137 $Z(s) = \left(\infty, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_1L_4R_4g_ms^2}{(L_1g_ms + 1) (2C_4L_4R_4s^2 + C_LL_4R_4s^2 + 2L_4s + 2R_4)}$$

10.138 INVALID-ORDER-138 $Z(s) = \left(\infty, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{L_1L_4R_4R_Lg_ms^2}{(L_1g_ms + 1) (2C_4L_4R_4R_Ls^2 + C_LL_4R_4R_Ls^2 + L_4R_4s + 2L_4R_Ls + 2R_4R_L)}$$

10.139 INVALID-ORDER-139 $Z(s) = \left(\infty, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 L_4 R_4 g_m s^2 (C_L R_L s + 1)}{(L_1 g_m s + 1) (2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L R_4 R_L s + 2L_4 s + 2R_4)}$$

10.140 INVALID-ORDER-140 $Z(s) = \left(\infty, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 L_4 R_4 g_m s^2 (C_L L_L s^2 + 1)}{(L_1 g_m s + 1) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_L R_4 s^2 + 2L_4 s + 2R_4)}$$

10.141 INVALID-ORDER-141 $Z(s) = \left(\infty, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_4 L_L R_4 g_m s^2}{(L_1 g_m s + 1) (2C_4 L_4 L_L R_4 s^2 + C_L L_4 L_L R_4 s^2 + 2L_4 L_L s + L_4 R_4 + 2L_L R_4)}$$

10.142 INVALID-ORDER-142 $Z(s) = \left(\infty, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 L_4 R_4 g_m s^2 (C_L L_L s^2 + C_L R_L s + 1)}{(L_1 g_m s + 1) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L L_L R_4 s^2 + 2C_L R_4 R_L s + 2L_4 s + 2R_4)}$$

10.143 INVALID-ORDER-143 $Z(s) = \left(\infty, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_1 L_4 L_L R_4 R_L g_m s^2}{(L_1 g_m s + 1) (2C_4 L_4 L_L R_4 R_L s^2 + C_L L_4 L_L R_4 R_L s^2 + L_4 L_L R_4 s + 2L_4 L_L R_L s + L_4 R_4 R_L + 2L_L R_4 R_L)}$$

10.144 INVALID-ORDER-144 $Z(s) = \left(\infty, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_1 L_4 R_4 g_m s^2 (C_L L_L R_L s^2 + L_L s + R_L)}{(L_1 g_m s + 1) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + 2C_L L_L R_4 R_L s^2 + 2L_4 L_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2L_L R_4 s + 2R_4)}$$

10.145 INVALID-ORDER-145 $Z(s) = \left(\infty, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_1 L_4 R_4 R_L g_m s^2 (C_L L_L s^2 + 1)}{(L_1 g_m s + 1) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + C_L L_4 R_4 R_L s^2 + 2C_L L_L R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

10.146 INVALID-ORDER-146 $Z(s) = \left(\infty, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_1 R_L g_m s (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(L_1 g_m s + 1) (C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + L_4 s + R_4 + 2R_L)}$$

10.147 INVALID-ORDER-147 $Z(s) = \left(\infty, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m s (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(L_1 g_m s + 1) (C_4 C_L L_4 R_4 s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2)}$$

10.148 INVALID-ORDER-148 $Z(s) = \left(\infty, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_1 R_L g_m s (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(L_1 g_m s + 1) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 R_L s^2 + C_L R_4 R_L s + L_4 s + R_4 + 2R_L)}$$

$$10.149 \quad \text{INVALID-ORDER-149} \quad Z(s) = \left(\infty, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 g_m s (C_L R_L s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(L_1 g_m s + 1) (C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_4 R_L s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2 C_L R_L s + 2)}$$

$$10.150 \quad \text{INVALID-ORDER-150} \quad Z(s) = \left(\infty, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 g_m s (C_L L_L s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(L_1 g_m s + 1) (2 C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L L_L s^2 + C_L R_4 s + 2)}$$

$$10.151 \quad \text{INVALID-ORDER-151} \quad Z(s) = \left(\infty, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_1 L_L g_m s^2 (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(L_1 g_m s + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + L_4 s + 2 L_L s + R_4)}$$

$$10.152 \quad \text{INVALID-ORDER-152} \quad Z(s) = \left(\infty, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 g_m s (C_L L_L s^2 + C_L R_L s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(L_1 g_m s + 1) (2 C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_4 R_L s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L L_L s^2 + C_L R_4 s + 2 C_L R_L s + 2)}$$

$$10.153 \quad \text{INVALID-ORDER-153} \quad Z(s) = \left(\infty, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_1 L_L R_L g_m s^2 (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(L_1 g_m s + 1) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2 C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_L s^3 + C_L L_L R_4 R_L s^2 + L_4 L_L s^2 + L_4 R_L s + L_L R_4 s + 2 L_L R_L s + R_4 R_L)}$$

$$10.154 \quad \text{INVALID-ORDER-154} \quad Z(s) = \left(\infty, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_1 g_m s (C_4 L_4 R_4 s^2 + L_4 s + R_4) (C_L L_L R_L s^2 + L_L s + R_L)}{(L_1 g_m s + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 C_L L_4 L_L R_L s^4 + 2 C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + L_4 s + 2 L_L s + R_4 + 2 R_L)}$$

$$10.155 \quad \text{INVALID-ORDER-155} \quad Z(s) = \left(\infty, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_1 R_L g_m s (C_L L_L s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(L_1 g_m s + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_4 R_L s^2 + C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + C_L R_4 R_L s + L)}$$

$$10.156 \quad \text{INVALID-ORDER-156} \quad Z(s) = (\infty, \infty, R_3, \infty, \infty, R_L)$$

$$H(s) = \frac{L_1 R_4 R_L g_m s (C_4 L_4 s^2 + 1)}{(L_1 g_m s + 1) (C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + 2 C_4 R_4 R_L s + R_4 + 2 R_L)}$$

$$10.157 \quad \text{INVALID-ORDER-157} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 R_4 g_m s (C_4 L_4 s^2 + 1)}{(L_1 g_m s + 1) (C_4 C_L L_4 R_4 s^3 + 2 C_4 L_4 s^2 + 2 C_4 R_4 s + C_L R_4 s + 2)}$$

$$10.158 \quad \text{INVALID-ORDER-158} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_1 R_4 R_L g_m s (C_4 L_4 s^2 + 1)}{(L_1 g_m s + 1) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + 2 C_4 R_4 R_L s + C_L R_4 R_L s + R_4 + 2 R_L)}$$

10.159 INVALID-ORDER-159 $Z(s) = \left(\infty, \infty, R_3, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_4 L_4 s^2 + 1) (C_L R_L s + 1)}{(L_1 g_m s + 1) (C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 L_4 s^2 + 2C_4 R_4 s + C_L R_4 s + 2C_L R_L s + 2)}$$

10.160 INVALID-ORDER-160 $Z(s) = \left(\infty, \infty, R_3, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(L_1 g_m s + 1) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_L R_4 s^3 + 2C_4 L_4 s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

10.161 INVALID-ORDER-161 $Z(s) = \left(\infty, \infty, R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_L R_4 g_m s^2 (C_4 L_4 s^2 + 1)}{(L_1 g_m s + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_L R_4 s^2 + C_L L_L R_4 s^2 + 2L_L s + R_4)}$$

10.162 INVALID-ORDER-162 $Z(s) = \left(\infty, \infty, R_3, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_4 L_4 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(L_1 g_m s + 1) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 C_L L_L R_4 s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 L_4 s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

10.163 INVALID-ORDER-163 $Z(s) = \left(\infty, \infty, R_3, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_1 L_L R_4 R_L g_m s^2 (C_4 L_4 s^2 + 1)}{(L_1 g_m s + 1) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + 2C_4 L_L R_4 R_L s^2 + C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

$$10.164 \quad \text{INVALID-ORDER-164} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_1 R_4 g_m s (C_4 L_4 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(L_1 g_m s + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 C_L L_4 L_L R_L s^4 + 2 C_4 C_L L_L R_4 R_L s^3 + 2 C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + 2 C_4 L_L R_4 s^2 + 2 C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + C_L R_4 s^2)}$$

$$10.165 \quad \text{INVALID-ORDER-165} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_1 R_4 R_L g_m s (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(L_1 g_m s + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + 2 C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + 2 C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + C_L R_4 s^2)}$$

$$10.166 \quad \text{INVALID-ORDER-166} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L \right)$$

$$H(s) = \frac{R_4 R_L g_m}{(R_4 + 2 R_L) (C_1 s + g_m)}$$

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

$$H(s) = \frac{R_4 g_m (C_L L_L s^2 + 1)}{(C_1 s + g_m) (2 C_L L_L s^2 + C_L R_4 s + 2)}$$

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

$$H(s) = \frac{L_L R_4 g_m s}{(C_1 s + g_m) (C_L L_L R_4 s^2 + 2 L_L s + R_4)}$$

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

$$H(s) = \frac{R_4 g_m (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 s + g_m) (2 C_L L_L s^2 + C_L R_4 s + 2 C_L R_L s + 2)}$$

10.170 INVALID-ORDER-170 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_4 R_L g_m s}{(C_1 s + g_m)(C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

10.171 INVALID-ORDER-171 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_4 g_m (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 s + g_m)(C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + 2L_L s + R_4 + 2R_L)}$$

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

$$H(s) = \frac{R_4 R_L g_m (C_L L_L s^2 + 1)}{(C_1 s + g_m)(C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2R_L)}$$

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

$$H(s) = \frac{g_m}{s(2C_4 + C_L)(C_1 s + g_m)}$$

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

$$H(s) = \frac{g_m (C_L R_L s + 1)}{s(C_1 s + g_m)(2C_4 C_L R_L s + 2C_4 + C_L)}$$

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

$$H(s) = \frac{g_m (C_L L_L s^2 + 1)}{s(C_1 s + g_m)(2C_4 C_L L_L s^2 + 2C_4 + C_L)}$$

10.176 INVALID-ORDER-176 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L g_m s}{(C_1 s + g_m)(2C_4 L_L s^2 + C_L L_L s^2 + 1)}$$

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

$$H(s) = \frac{g_m (C_L L_L s^2 + C_L R_L s + 1)}{s (C_1 s + g_m)(2C_4 C_L L_L s^2 + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

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

$$H(s) = \frac{L_L R_L g_m s}{(C_1 s + g_m)(2C_4 L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L)}$$

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

$$H(s) = \frac{g_m (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 s + g_m)(2C_4 C_L L_L R_L s^3 + 2C_4 L_L s^2 + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

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

$$H(s) = \frac{R_L g_m (C_L L_L s^2 + 1)}{(C_1 s + g_m)(2C_4 C_L L_L R_L s^3 + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

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

$$H(s) = \frac{R_4 g_m (C_L R_L s + 1)}{(C_1 s + g_m) (2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + C_L R_4 s + 2C_L R_L s + 2)}$$

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

$$H(s) = \frac{R_4 g_m (C_L L_L s^2 + 1)}{(C_1 s + g_m) (2C_4 C_L L_L R_4 s^3 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

10.183 INVALID-ORDER-183 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_4 g_m s}{(C_1 s + g_m) (2C_4 L_L R_4 s^2 + C_L L_L R_4 s^2 + 2L_L s + R_4)}$$

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

$$H(s) = \frac{R_4 g_m (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 s + g_m) (2C_4 C_L L_L R_4 s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

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

$$H(s) = \frac{L_L R_4 R_L g_m s}{(C_1 s + g_m) (2C_4 L_L R_4 R_L s^2 + C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

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

$$H(s) = \frac{R_4 g_m (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 s + g_m) (2C_4 C_L L_L R_4 R_L s^3 + 2C_4 L_L R_4 s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + 2L_L s + R_4 + 2R_L)}$$

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

$$H(s) = \frac{R_4 R_L g_m (C_L L_L s^2 + 1)}{(C_1 s + g_m) (2C_4 C_L L_L R_4 R_L s^3 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2R_L)}$$

$$10.188 \quad \text{INVALID-ORDER-188} \quad Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{g_m (C_4 R_4 s + 1)}{s (C_1 s + g_m) (C_4 C_L R_4 s + 2C_4 + C_L)}$$

$$10.189 \quad \text{INVALID-ORDER-189} \quad Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_L g_m (C_4 R_4 s + 1)}{(C_1 s + g_m) (C_4 C_L R_4 R_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L R_L s + 1)}$$

$$10.190 \quad \text{INVALID-ORDER-190} \quad Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{g_m (C_4 R_4 s + 1) (C_L R_L s + 1)}{s (C_1 s + g_m) (C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

$$10.191 \quad \text{INVALID-ORDER-191} \quad Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{g_m (C_4 R_4 s + 1) (C_L L_L s^2 + 1)}{s (C_1 s + g_m) (2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

$$10.192 \quad \text{INVALID-ORDER-192} \quad Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L g_m s (C_4 R_4 s + 1)}{(C_1 s + g_m) (C_4 C_L L_L R_4 s^3 + 2C_4 L_L s^2 + C_4 R_4 s + C_L L_L s^2 + 1)}$$

10.193 INVALID-ORDER-193 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_4R_4s + 1) (C_LL_Ls^2 + C_LR_Ls + 1)}{s (C_1s + g_m) (2C_4C_LL_Ls^2 + C_4C_LR_4s + 2C_4C_LR_Ls + 2C_4 + C_L)}$$

10.194 INVALID-ORDER-194 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_LR_Lg_ms (C_4R_4s + 1)}{(C_1s + g_m) (C_4C_LL_LR_4R_Ls^3 + C_4C_LL_R_4s^2 + 2C_4C_LL_R_Ls^2 + C_4R_4R_Ls + C_LL_LR_Ls^2 + L_Ls + R_L)}$$

10.195 INVALID-ORDER-195 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1} + R_L \right)$

$$H(s) = \frac{g_m (C_4R_4s + 1) (C_LL_LR_Ls^2 + L_Ls + R_L)}{(C_1s + g_m) (C_4C_LL_LR_4s^3 + 2C_4C_LL_R_Ls^3 + 2C_4L_Ls^2 + C_4R_4s + 2C_4R_Ls + C_LL_Ls^2 + 1)}$$

10.196 INVALID-ORDER-196 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \infty, \frac{R_L \left(L_Ls + \frac{1}{C_Ls} \right)}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$

$$H(s) = \frac{R_Lg_m (C_4R_4s + 1) (C_LL_Ls^2 + 1)}{(C_1s + g_m) (C_4C_LL_LR_4s^3 + 2C_4C_LL_R_Ls^3 + C_4C_LR_4R_Ls^2 + C_4R_4s + 2C_4R_Ls + C_LL_Ls^2 + C_LR_Ls + 1)}$$

10.197 INVALID-ORDER-197 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_Lg_m (C_4L_4s^2 + 1)}{(C_1s + g_m) (C_4L_4s^2 + 2C_4R_Ls + 1)}$$

10.198 INVALID-ORDER-198 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_4 L_4 s^2 + 1)}{s (C_1 s + g_m) (C_4 C_L L_4 s^2 + 2C_4 + C_L)}$$

10.199 INVALID-ORDER-199 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L g_m (C_4 L_4 s^2 + 1)}{(C_1 s + g_m) (C_4 C_L L_4 R_L s^3 + C_4 L_4 s^2 + 2C_4 R_L s + C_L R_L s + 1)}$$

10.200 INVALID-ORDER-200 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_4 L_4 s^2 + 1) (C_L R_L s + 1)}{s (C_1 s + g_m) (C_4 C_L L_4 s^2 + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.201 INVALID-ORDER-201 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{s (C_1 s + g_m) (C_4 C_L L_4 s^2 + 2C_4 C_L L_L s^2 + 2C_4 + C_L)}$$

10.202 INVALID-ORDER-202 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L g_m s (C_4 L_4 s^2 + 1)}{(C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + C_4 L_4 s^2 + 2C_4 L_L s^2 + C_L L_L s^2 + 1)}$$

10.203 INVALID-ORDER-203 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (C_1 s + g_m) (C_4 C_L L_4 s^2 + 2C_4 C_L L_L s^2 + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.204 INVALID-ORDER-204 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L g_m s (C_4 L_4 s^2 + 1)}{(C_1 s + g_m) (C_4 C_L L_4 L_L R_L s^4 + C_4 L_4 L_L s^3 + C_4 L_4 R_L s^2 + 2C_4 L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.205 INVALID-ORDER-205 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{g_m (C_4 L_4 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + 2C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2C_4 L_L s^2 + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

10.206 INVALID-ORDER-206 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_L g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_L s^3 + 2C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.207 INVALID-ORDER-207 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_4 R_L g_m s}{(C_1 s + g_m) (2C_4 L_4 R_L s^2 + L_4 s + 2R_L)}$$

10.208 INVALID-ORDER-208 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 g_m s}{(C_1 s + g_m) (2C_4 L_4 s^2 + C_L L_4 s^2 + 2)}$$

10.209 INVALID-ORDER-209 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{L_4R_Lg_ms}{(C_1s + g_m)(2C_4L_4R_Ls^2 + C_LR_4R_Ls^2 + L_4s + 2R_L)}$$

10.210 INVALID-ORDER-210 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_4g_ms(C_LR_Ls + 1)}{(C_1s + g_m)(2C_4C_LL_4R_Ls^3 + 2C_4L_4s^2 + C_LL_4s^2 + 2C_LR_Ls + 2)}$$

10.211 INVALID-ORDER-211 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_4g_ms(C_LL_Ls^2 + 1)}{(C_1s + g_m)(2C_4C_LL_4L_Ls^4 + 2C_4L_4s^2 + C_LL_4s^2 + 2C_LL_Ls^2 + 2)}$$

10.212 INVALID-ORDER-212 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} \right)$

$$H(s) = \frac{L_4L_Lg_ms}{(C_1s + g_m)(2C_4L_4L_Ls^2 + C_LL_4L_Ls^2 + L_4 + 2L_L)}$$

10.213 INVALID-ORDER-213 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_4g_ms(C_LL_Ls^2 + C_LR_Ls + 1)}{(C_1s + g_m)(2C_4C_LL_4L_Ls^4 + 2C_4C_LL_4R_Ls^3 + 2C_4L_4s^2 + C_LL_4s^2 + 2C_LL_Ls^2 + 2C_LR_Ls + 2)}$$

10.214 INVALID-ORDER-214 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_4L_LR_Lg_ms}{(C_1s + g_m)(2C_4L_4L_LR_Ls^2 + C_LL_4L_LR_Ls^2 + L_4L_Ls + L_4R_L + 2L_LR_L)}$$

10.215 INVALID-ORDER-215 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$

$$H(s) = \frac{L_4g_ms (C_LL_LR_Ls^2 + L_Ls + R_L)}{(C_1s + g_m)(2C_4C_LL_4L_LR_Ls^4 + 2C_4L_4L_Ls^3 + 2C_4L_4R_Ls^2 + C_LL_4L_Ls^3 + 2C_LL_LR_Ls^2 + L_4s + 2L_Ls + 2R_L)}$$

10.216 INVALID-ORDER-216 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$

$$H(s) = \frac{L_4R_Lg_ms (C_LL_Ls^2 + 1)}{(C_1s + g_m)(2C_4C_LL_4L_LR_Ls^4 + 2C_4L_4R_Ls^2 + C_LL_4L_Ls^3 + C_LL_4R_Ls^2 + 2C_LL_LR_Ls^2 + L_4s + 2R_L)}$$

10.217 INVALID-ORDER-217 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_Lg_m (C_4L_4s^2 + C_4R_4s + 1)}{(C_1s + g_m)(C_4L_4s^2 + C_4R_4s + 2C_4R_Ls + 1)}$$

10.218 INVALID-ORDER-218 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \infty, \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_4L_4s^2 + C_4R_4s + 1)}{s(C_1s + g_m)(C_4C_LL_4s^2 + C_4C_LR_4s + 2C_4 + C_L)}$$

10.219 INVALID-ORDER-219 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{R_Lg_m (C_4L_4s^2 + C_4R_4s + 1)}{(C_1s + g_m)(C_4C_LL_4R_Ls^3 + C_4C_LR_4R_Ls^2 + C_4L_4s^2 + C_4R_4s + 2C_4R_Ls + C_LR_Ls + 1)}$$

10.220 INVALID-ORDER-220 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \infty, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_L R_L s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (C_1 s + g_m) (C_4 C_L L_4 s^2 + C_4 C_L R_4 s + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

10.221 INVALID-ORDER-221 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \infty, L_L s + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_L L_L s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (C_1 s + g_m) (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2 C_4 + C_L)}$$

10.222 INVALID-ORDER-222 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L g_m s (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + C_4 R_4 s + C_L L_L s^2 + 1)}$$

10.223 INVALID-ORDER-223 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \infty, L_L s + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (C_1 s + g_m) (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

10.224 INVALID-ORDER-224 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L g_m s (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 s + g_m) (C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 L_L s^3 + C_4 L_4 R_L s^2 + C_4 L_L R_4 s^2 + 2 C_4 L_L R_L s^2 + C_4 R_4 R_L s + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.225 INVALID-ORDER-225 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \infty, \frac{L_Ls}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{g_m (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2C_4 L_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

10.226 INVALID-ORDER-226 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_L g_m (C_L L_L s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_L s^3 + C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.227 INVALID-ORDER-227 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_4 R_4 R_L g_m s}{(C_1 s + g_m) (2C_4 L_4 R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

10.228 INVALID-ORDER-228 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_4 g_m s}{(C_1 s + g_m) (2C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2L_4 s + 2R_4)}$$

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

$$H(s) = \frac{L_4 R_4 R_L g_m s}{(C_1 s + g_m) (2C_4 L_4 R_4 R_L s^2 + C_L L_4 R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

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

$$H(s) = \frac{L_4 R_4 g_m s (C_L R_L s + 1)}{(C_1 s + g_m) (2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2C_L R_4 R_L s + 2L_4 s + 2R_4)}$$

10.231 INVALID-ORDER-231 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_4 g_m s (C_L L_L s^2 + 1)}{(C_1 s + g_m) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_L R_4 s^2 + 2L_4 s + 2R_4)}$$

10.232 INVALID-ORDER-232 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_4 L_L R_4 g_m s}{(C_1 s + g_m) (2C_4 L_4 L_L R_4 s^2 + C_L L_4 L_L R_4 s^2 + 2L_4 L_L s + L_4 R_4 + 2L_L R_4)}$$

10.233 INVALID-ORDER-233 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_4 g_m s (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 s + g_m) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L L_L R_4 s^2 + 2C_L R_4 R_L s + 2L_4 s + 2R_4)}$$

10.234 INVALID-ORDER-234 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_4 L_L R_4 R_L g_m s}{(C_1 s + g_m) (2C_4 L_4 L_L R_4 R_L s^2 + C_L L_4 L_L R_4 R_L s^2 + L_4 L_L R_4 s + 2L_4 L_L R_L s + L_4 R_4 R_L + 2L_L R_4 R_L)}$$

10.235 INVALID-ORDER-235 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_4 R_4 g_m s (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 s + g_m) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + 2C_L L_L R_4 R_L s^2 + 2L_4 L_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2L_L R_4 s + 2R_4 R_L)}$$

$$10.236 \quad \text{INVALID-ORDER-236} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_4 R_4 R_L g_m s (C_L L_L s^2 + 1)}{(C_1 s + g_m) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + C_L L_4 R_4 R_L s^2 + 2C_L L_L R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

$$10.237 \quad \text{INVALID-ORDER-237} \quad Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, R_L \right)$$

$$H(s) = \frac{R_L g_m (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 s + g_m) (C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + L_4 s + R_4 + 2R_L)}$$

$$10.238 \quad \text{INVALID-ORDER-238} \quad Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{g_m (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 s + g_m) (C_4 C_L L_4 R_4 s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2)}$$

$$10.239 \quad \text{INVALID-ORDER-239} \quad Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_L g_m (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 s + g_m) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 R_L s^2 + C_L R_4 R_L s + L_4 s + R_4 + 2R_L)}$$

$$10.240 \quad \text{INVALID-ORDER-240} \quad Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{g_m (C_L R_L s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 s + g_m) (C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

10.241 INVALID-ORDER-241 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_L L_L s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 s + g_m) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

10.242 INVALID-ORDER-242 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L g_m s (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + L_4 s + 2L_L s + R_4)}$$

10.243 INVALID-ORDER-243 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_L L_L s^2 + C_L R_L s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 s + g_m) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

10.244 INVALID-ORDER-244 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L g_m s (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 s + g_m) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_L s^3 + C_L L_L R_4 R_L s^2 + L_4 L_L s^2 + L_4 R_L s + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

10.245 INVALID-ORDER-245 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{g_m (C_4 L_4 R_4 s^2 + L_4 s + R_4) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + L_4 s + 2L_L s + R_4 + 2R_L)}$$

10.246 INVALID-ORDER-246 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_L g_m (C_L L_L s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_4 R_L s^2 + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + C_L R_4 R_L s + L_4)}$$

10.247 INVALID-ORDER-247 $Z(s) = (\infty, \infty, \infty, R_4, \infty, R_L)$

$$H(s) = \frac{R_4 R_L g_m (C_4 L_4 s^2 + 1)}{(C_1 s + g_m) (C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 R_4 R_L s + R_4 + 2R_L)}$$

10.248 INVALID-ORDER-248 $Z(s) = \left(\infty, \infty, \infty, R_4, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_4 L_4 s^2 + 1)}{(C_1 s + g_m) (C_4 C_L L_4 R_4 s^3 + 2C_4 L_4 s^2 + 2C_4 R_4 s + C_L R_4 s + 2)}$$

10.249 INVALID-ORDER-249 $Z(s) = \left(\infty, \infty, \infty, R_4, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_4 R_L g_m (C_4 L_4 s^2 + 1)}{(C_1 s + g_m) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 R_4 R_L s + C_L R_4 R_L s + R_4 + 2R_L)}$$

10.250 INVALID-ORDER-250 $Z(s) = \left(\infty, \infty, \infty, R_4, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_4 L_4 s^2 + 1) (C_L R_L s + 1)}{(C_1 s + g_m) (C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 L_4 s^2 + 2C_4 R_4 s + C_L R_4 s + 2C_L R_L s + 2)}$$

10.251 INVALID-ORDER-251 $Z(s) = \left(\infty, \infty, \infty, R_4, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 s + g_m) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_L R_4 s^3 + 2C_4 L_4 s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

10.252 INVALID-ORDER-252 $Z(s) = \left(\infty, \infty, \infty, R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_4 g_m s (C_4 L_4 s^2 + 1)}{(C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_L R_4 s^2 + C_L L_L R_4 s^2 + 2L_L s + R_4)}$$

10.253 INVALID-ORDER-253 $Z(s) = \left(\infty, \infty, \infty, R_4, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 s + g_m) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 C_L L_L R_4 s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 L_4 s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

10.254 INVALID-ORDER-254 $Z(s) = \left(\infty, \infty, \infty, R_4, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_4 R_L g_m s (C_4 L_4 s^2 + 1)}{(C_1 s + g_m) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + 2C_4 L_L R_4 R_L s^2 + C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

10.255 INVALID-ORDER-255 $Z(s) = \left(\infty, \infty, \infty, R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_4 g_m (C_4 L_4 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + 2C_4 C_L L_L R_4 R_L s^3 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 L_L R_4 s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 -$$

$$10.256 \quad \text{INVALID-ORDER-256} \quad Z(s) = \left(\infty, \infty, \infty, R_4, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_4 R_L g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + 2C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + C_L R_4 R_L s)}$$

$$10.257 \quad \text{INVALID-ORDER-257} \quad Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s}, \infty, R_L \right)$$

$$H(s) = \frac{R_1 R_4 R_L g_m}{(R_4 + 2R_L) (C_1 R_1 s + R_1 g_m + 1)}$$

$$10.258 \quad \text{INVALID-ORDER-258} \quad Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 R_4 g_m (C_L L_L s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1) (2C_L L_L s^2 + C_L R_4 s + 2)}$$

$$10.259 \quad \text{INVALID-ORDER-259} \quad Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L R_1 R_4 g_m s}{(C_1 R_1 s + R_1 g_m + 1) (C_L L_L R_4 s^2 + 2L_L s + R_4)}$$

$$10.260 \quad \text{INVALID-ORDER-260} \quad Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 R_4 g_m (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 R_1 s + R_1 g_m + 1) (2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

10.261 INVALID-ORDER-261 $Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_1 R_4 R_L g_m s}{(C_1 R_1 s + R_1 g_m + 1)(C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

10.262 INVALID-ORDER-262 $Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 R_1 s + R_1 g_m + 1)(C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + 2L_L s + R_4 + 2R_L)}$$

10.263 INVALID-ORDER-263 $Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_1 R_4 R_L g_m (C_L L_L s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1)(C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2R_L)}$$

10.264 INVALID-ORDER-264 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m}{s(2C_4 + C_L)(C_1 R_1 s + R_1 g_m + 1)}$$

10.265 INVALID-ORDER-265 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_L R_L s + 1)}{s(C_1 R_1 s + R_1 g_m + 1)(2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.266 INVALID-ORDER-266 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_L L_L s^2 + 1)}{s (C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_L s^2 + 2C_4 + C_L)}$$

10.267 INVALID-ORDER-267 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_1 g_m s}{(C_1 R_1 s + R_1 g_m + 1) (2C_4 L_L s^2 + C_L L_L s^2 + 1)}$$

10.268 INVALID-ORDER-268 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_L L_L s^2 + C_L R_L s + 1)}{s (C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_L s^2 + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.269 INVALID-ORDER-269 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_1 R_L g_m s}{(C_1 R_1 s + R_1 g_m + 1) (2C_4 L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.270 INVALID-ORDER-270 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_1 g_m (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_L R_L s^3 + 2C_4 L_L s^2 + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

10.271 INVALID-ORDER-271 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_1 R_L g_m (C_L L_L s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_L R_L s^3 + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.272 INVALID-ORDER-272 $Z(s) = \left(\infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_L R_L s + 1)}{(C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + C_L R_4 s + 2C_L R_L s + 2)}$$

10.273 INVALID-ORDER-273 $Z(s) = \left(\infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_L L_L s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_L R_4 s^3 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

10.274 INVALID-ORDER-274 $Z(s) = \left(\infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_1 R_4 g_m s}{(C_1 R_1 s + R_1 g_m + 1) (2C_4 L_L R_4 s^2 + C_L L_L R_4 s^2 + 2L_L s + R_4)}$$

10.275 INVALID-ORDER-275 $Z(s) = \left(\infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_L R_4 s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

10.276 INVALID-ORDER-276 $Z(s) = \left(\infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_1 R_4 R_L g_m s}{(C_1 R_1 s + R_1 g_m + 1)(2C_4 L_L R_4 R_L s^2 + C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

10.277 INVALID-ORDER-277 $Z(s) = \left(\infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 R_1 s + R_1 g_m + 1)(2C_4 C_L L_L R_4 R_L s^3 + 2C_4 L_L R_4 s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + 2L_L s + R_4 + 2R_L)}$$

10.278 INVALID-ORDER-278 $Z(s) = \left(\infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_1 R_4 R_L g_m (C_L L_L s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1)(2C_4 C_L L_L R_4 R_L s^3 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2R_L)}$$

10.279 INVALID-ORDER-279 $Z(s) = \left(\infty, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_4 R_4 s + 1)}{s (C_1 R_1 s + R_1 g_m + 1) (C_4 C_L R_4 s + 2C_4 + C_L)}$$

10.280 INVALID-ORDER-280 $Z(s) = \left(\infty, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_1 R_L g_m (C_4 R_4 s + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L R_4 R_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L R_L s + 1)}$$

10.281 INVALID-ORDER-281 $Z(s) = \left(\infty, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_1g_m(C_4R_4s+1)(C_LR_Ls+1)}{s(C_1R_1s+R_1g_m+1)(C_4C_LR_4s+2C_4C_LR_Ls+2C_4+C_L)}$$

10.282 INVALID-ORDER-282 $Z(s) = \left(\infty, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_1g_m(C_4R_4s+1)(C_LL_Ls^2+1)}{s(C_1R_1s+R_1g_m+1)(2C_4C_LL_Ls^2+C_4C_LR_4s+2C_4+C_L)}$$

10.283 INVALID-ORDER-283 $Z(s) = \left(\infty, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, \frac{L_Ls}{C_LL_Ls^2+1} \right)$

$$H(s) = \frac{L_LR_1g_ms(C_4R_4s+1)}{(C_1R_1s+R_1g_m+1)(C_4C_LL_LR_4s^3+2C_4L_Ls^2+C_4R_4s+C_LL_Ls^2+1)}$$

10.284 INVALID-ORDER-284 $Z(s) = \left(\infty, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_1g_m(C_4R_4s+1)(C_LL_Ls^2+C_LR_Ls+1)}{s(C_1R_1s+R_1g_m+1)(2C_4C_LL_Ls^2+C_4C_LR_4s+2C_4C_LR_Ls+2C_4+C_L)}$$

10.285 INVALID-ORDER-285 $Z(s) = \left(\infty, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_LR_1R_Lg_ms(C_4R_4s+1)}{(C_1R_1s+R_1g_m+1)(C_4C_LL_LR_4R_Ls^3+C_4L_LR_4s^2+2C_4L_LR_Ls^2+C_4R_4R_Ls+C_LL_LR_Ls^2+L_Ls+R_L)}$$

10.286 INVALID-ORDER-286 $Z(s) = \left(\infty, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$

$$H(s) = \frac{R_1g_m(C_4R_4s+1)(C_LL_LR_Ls^2+L_Ls+R_L)}{(C_1R_1s+R_1g_m+1)(C_4C_LL_LR_4s^3+2C_4C_LL_LR_Ls^3+2C_4L_Ls^2+C_4R_4s+2C_4R_Ls+C_LL_Ls^2+1)}$$

$$10.287 \quad \text{INVALID-ORDER-287} \quad Z(s) = \left(\infty, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_4 R_4 s + 1) (C_L L_L s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_L R_4 s^3 + 2 C_4 C_L L_L R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 R_4 s + 2 C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

$$10.288 \quad \text{INVALID-ORDER-288} \quad Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_4 L_4 s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 L_4 s^2 + 2 C_4 R_L s + 1)}$$

$$10.289 \quad \text{INVALID-ORDER-289} \quad Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 g_m (C_4 L_4 s^2 + 1)}{s (C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 s^2 + 2 C_4 + C_L)}$$

$$10.290 \quad \text{INVALID-ORDER-290} \quad Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_4 L_4 s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 R_L s^3 + C_4 L_4 s^2 + 2 C_4 R_L s + C_L R_L s + 1)}$$

$$10.291 \quad \text{INVALID-ORDER-291} \quad Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 g_m (C_4 L_4 s^2 + 1) (C_L R_L s + 1)}{s (C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 s^2 + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

10.292 INVALID-ORDER-292 $Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{s (C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + 2 C_4 + C_L)}$$

10.293 INVALID-ORDER-293 $Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_1 g_m s (C_4 L_4 s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + C_L L_L s^2 + 1)}$$

10.294 INVALID-ORDER-294 $Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

10.295 INVALID-ORDER-295 $Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_1 R_L g_m s (C_4 L_4 s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_L s^4 + C_4 L_4 L_L s^3 + C_4 L_4 R_L s^2 + 2 C_4 L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.296 INVALID-ORDER-296 $Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_1 g_m (C_4 L_4 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + 2 C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + 2 C_4 R_L s + C_L L_L s^2 + 1)}$$

10.297 INVALID-ORDER-297 $Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_1 R_L g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_L s^3 + 2 C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2 C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.298 INVALID-ORDER-298 $Z(s) = \left(\infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L \right)$

$$H(s) = \frac{L_4 R_1 R_L g_m s}{(C_1 R_1 s + R_1 g_m + 1) (2 C_4 L_4 R_L s^2 + L_4 s + 2 R_L)}$$

10.299 INVALID-ORDER-299 $Z(s) = \left(\infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_1 g_m s}{(C_1 R_1 s + R_1 g_m + 1) (2 C_4 L_4 s^2 + C_L L_4 s^2 + 2)}$$

10.300 INVALID-ORDER-300 $Z(s) = \left(\infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_4 R_1 R_L g_m s}{(C_1 R_1 s + R_1 g_m + 1) (2 C_4 L_4 R_L s^2 + C_L L_4 R_L s^2 + L_4 s + 2 R_L)}$$

10.301 INVALID-ORDER-301 $Z(s) = \left(\infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_1 g_m s (C_L R_L s + 1)}{(C_1 R_1 s + R_1 g_m + 1) (2 C_4 C_L L_4 R_L s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L R_L s + 2)}$$

10.302 INVALID-ORDER-302 $Z(s) = \left(\infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_1 g_m s (C_L L_L s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1) (2 C_4 C_L L_4 L_L s^4 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L L_L s^2 + 2)}$$

10.303 INVALID-ORDER-303 $Z(s) = \left(\infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{L_Ls}{C_LL_Ls^2+1} \right)$

$$H(s) = \frac{L_4L_LR_1g_ms}{(C_1R_1s + R_1g_m + 1)(2C_4L_4L_Ls^2 + C_LL_4L_Ls^2 + L_4 + 2L_L)}$$

10.304 INVALID-ORDER-304 $Z(s) = \left(\infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_4R_1g_ms(C_LL_Ls^2 + C_LR_Ls + 1)}{(C_1R_1s + R_1g_m + 1)(2C_4C_LL_4L_Ls^4 + 2C_4C_LL_4R_Ls^3 + 2C_4L_4s^2 + C_LL_4s^2 + 2C_LL_Ls^2 + 2C_LR_Ls + 2)}$$

10.305 INVALID-ORDER-305 $Z(s) = \left(\infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_4L_LR_1R_Lg_ms}{(C_1R_1s + R_1g_m + 1)(2C_4L_4L_LR_Ls^2 + C_LL_4L_LR_Ls^2 + L_4L_Ls + L_4R_L + 2L_LR_L)}$$

10.306 INVALID-ORDER-306 $Z(s) = \left(\infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$

$$H(s) = \frac{L_4R_1g_ms(C_LL_LR_Ls^2 + L_Ls + R_L)}{(C_1R_1s + R_1g_m + 1)(2C_4C_LL_4L_LR_Ls^4 + 2C_4L_4L_Ls^3 + 2C_4L_4R_Ls^2 + C_LL_4L_Ls^3 + 2C_LL_LR_Ls^2 + L_4s + 2L_Ls + 2R_L)}$$

10.307 INVALID-ORDER-307 $Z(s) = \left(\infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$

$$H(s) = \frac{L_4R_1R_Lg_ms(C_LL_Ls^2 + 1)}{(C_1R_1s + R_1g_m + 1)(2C_4C_LL_4L_LR_Ls^4 + 2C_4L_4R_Ls^2 + C_LL_4L_Ls^3 + C_LL_4R_Ls^2 + 2C_LL_LR_Ls^2 + L_4s + 2R_L)}$$

10.308 INVALID-ORDER-308 $Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, \infty, R_L \right)$

$$H(s) = \frac{R_1 R_L g_m (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + 1)}$$

10.309 INVALID-ORDER-309 $Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

10.310 INVALID-ORDER-310 $Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_1 R_L g_m (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + C_L R_L s + 1)}$$

10.311 INVALID-ORDER-311 $Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_L R_L s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 s^2 + C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.312 INVALID-ORDER-312 $Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_L L_L s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 s^2 + 2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

$$10.313 \quad \text{INVALID-ORDER-313} \quad Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L R_1 g_m s (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + C_4 R_4 s + C_L L_L s^2 + 1)}$$

$$10.314 \quad \text{INVALID-ORDER-314} \quad Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 g_m (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

$$10.315 \quad \text{INVALID-ORDER-315} \quad Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_L R_1 R_L g_m s (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 L_L s^3 + C_4 L_4 R_L s^2 + C_4 L_L R_4 s^2 + 2 C_4 L_L R_L s^2 + C_4 R_4 R_L s + C_L L_L R_L s^2 + L_L s + R_L)}$$

$$10.316 \quad \text{INVALID-ORDER-316} \quad Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{R_1 g_m (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + 2 C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + C_4 R_4 s + 2 C_4 R_L s + C_L L_L s^2 + 1)}$$

$$10.317 \quad \text{INVALID-ORDER-317} \quad Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_L L_L s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_L s^3 + C_4 C_L L_L R_4 s^3 + 2 C_4 C_L L_L R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 L_4 s^2 + C_4 R_4 s + 2 C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.318 INVALID-ORDER-318 $Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \infty, R_L \right)$

$$H(s) = \frac{L_4 R_1 R_4 R_L g_m s}{(C_1 R_1 s + R_1 g_m + 1)(2C_4 L_4 R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

10.319 INVALID-ORDER-319 $Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_1 R_4 g_m s}{(C_1 R_1 s + R_1 g_m + 1)(2C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2L_4 s + 2R_4)}$$

10.320 INVALID-ORDER-320 $Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_4 R_1 R_4 R_L g_m s}{(C_1 R_1 s + R_1 g_m + 1)(2C_4 L_4 R_4 R_L s^2 + C_L L_4 R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

10.321 INVALID-ORDER-321 $Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_1 R_4 g_m s (C_L R_L s + 1)}{(C_1 R_1 s + R_1 g_m + 1)(2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L R_4 R_L s + 2L_4 s + 2R_4)}$$

10.322 INVALID-ORDER-322 $Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_1 R_4 g_m s (C_L L_L s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1)(2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_L R_4 s^2 + 2L_4 s + 2R_4)}$$

10.323 INVALID-ORDER-323 $Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_4 L_L R_1 R_4 g_m s}{(C_1 R_1 s + R_1 g_m + 1)(2C_4 L_4 L_L R_4 s^2 + C_L L_4 L_L R_4 s^2 + 2L_4 L_L s + L_4 R_4 + 2L_L R_4)}$$

$$10.324 \quad \text{INVALID-ORDER-324} \quad Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 R_1 R_4 g_m s (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L L_L R_4 s^2 + 2C_L R_4 R_L s + 2L_4 s + 2R_4)}$$

$$10.325 \quad \text{INVALID-ORDER-325} \quad Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_4 L_L R_1 R_4 R_L g_m s}{(C_1 R_1 s + R_1 g_m + 1) (2C_4 L_4 L_L R_4 R_L s^2 + C_L L_4 L_L R_4 R_L s^2 + L_4 L_L R_4 s + 2L_4 L_L R_L s + L_4 R_4 R_L + 2L_L R_4 R_L)}$$

$$10.326 \quad \text{INVALID-ORDER-326} \quad Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_4 R_1 R_4 g_m s (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + 2C_L L_L R_4 R_L s^2 + 2L_4 L_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2L_L R_4)}$$

$$10.327 \quad \text{INVALID-ORDER-327} \quad Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_4 R_1 R_4 R_L g_m s (C_L L_L s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + C_L L_4 R_4 R_L s^2 + 2C_L L_L R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

$$10.328 \quad \text{INVALID-ORDER-328} \quad Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, R_L \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + L_4 s + R_4 + 2R_L)}$$

10.329 INVALID-ORDER-329 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 R_4 s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2)}$$

10.330 INVALID-ORDER-330 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_1 R_L g_m (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + C_L L_4 R_L s^2 + C_L R_4 R_L s + L_4 s + R_4 + 2 R_L)}$$

10.331 INVALID-ORDER-331 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_L R_L s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_4 R_L s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2 C_L R_L s + 2)}$$

10.332 INVALID-ORDER-332 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_L L_L s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 R_1 s + R_1 g_m + 1) (2 C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L L_L s^2 + C_L R_4 s + 2)}$$

10.333 INVALID-ORDER-333 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_1 g_m s (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + L_4 s + 2 L_L s + R_4)}$$

$$10.334 \quad \text{INVALID-ORDER-334} \quad Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 g_m (C_L L_L s^2 + C_L R_L s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

$$10.335 \quad \text{INVALID-ORDER-335} \quad Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_L R_1 R_L g_m s (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_L s^3 + C_L L_L R_4 R_L s^2 + L_4 L_L s^2 + L_4 R_L s + L_L R_4 s + 2L_L R_L s + R_4)}$$

$$10.336 \quad \text{INVALID-ORDER-336} \quad Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{R_1 g_m (C_4 L_4 R_4 s^2 + L_4 s + R_4) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + L_4 s + 2L_L s + R_4 + 2R_L)}$$

$$10.337 \quad \text{INVALID-ORDER-337} \quad Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_L L_L s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_4 R_L s^2 + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + C_L R_4)}$$

$$10.338 \quad \text{INVALID-ORDER-338} \quad Z(s) = (\infty, \infty, \infty, \infty, R_4, R_L)$$

$$H(s) = \frac{R_1 R_4 R_L g_m (C_4 L_4 s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 R_4 R_L s + R_4 + 2R_L)}$$

10.339 INVALID-ORDER-339 $Z(s) = \left(\infty, \infty, \infty, \infty, R_4, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_4 L_4 s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 R_4 s^3 + 2C_4 L_4 s^2 + 2C_4 R_4 s + C_L R_4 s + 2)}$$

10.340 INVALID-ORDER-340 $Z(s) = \left(\infty, \infty, \infty, \infty, R_4, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_1 R_4 R_L g_m (C_4 L_4 s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 R_4 R_L s + C_L R_4 R_L s + R_4 + 2R_L)}$$

10.341 INVALID-ORDER-341 $Z(s) = \left(\infty, \infty, \infty, \infty, R_4, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_4 L_4 s^2 + 1) (C_L R_L s + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 L_4 s^2 + 2C_4 R_4 s + C_L R_4 s + 2C_L R_L s + 2)}$$

10.342 INVALID-ORDER-342 $Z(s) = \left(\infty, \infty, \infty, \infty, R_4, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_L R_4 s^3 + 2C_4 L_4 s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

10.343 INVALID-ORDER-343 $Z(s) = \left(\infty, \infty, \infty, \infty, R_4, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_1 R_4 g_m s (C_4 L_4 s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_L R_4 s^2 + C_L L_L R_4 s^2 + 2L_L s + R_4)}$$

10.344 INVALID-ORDER-344 $Z(s) = \left(\infty, \infty, \infty, \infty, R_4, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 C_L L_L R_4 s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 L_4 s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

$$10.345 \quad \text{INVALID-ORDER-345} \quad Z(s) = \left(\infty, \infty, \infty, \infty, R_4, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_L R_1 R_4 R_L g_m s (C_4 L_4 s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + 2C_4 L_L R_4 R_L s^2 + C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

$$10.346 \quad \text{INVALID-ORDER-346} \quad Z(s) = \left(\infty, \infty, \infty, \infty, R_4, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{R_1 R_4 g_m (C_4 L_4 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + 2C_4 C_L L_L R_4 R_L s^3 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 L_L R_4 s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 -$$

$$10.347 \quad \text{INVALID-ORDER-347} \quad Z(s) = \left(\infty, \infty, \infty, \infty, R_4, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_1 R_4 R_L g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + 2C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 -$$

$$10.348 \quad \text{INVALID-ORDER-348} \quad Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s}, R_L \right)$$

$$H(s) = \frac{R_4 R_L g_m (C_1 R_1 s + 1)}{(R_4 + 2R_L) (C_1 R_1 g_m s + C_1 s + g_m)}$$

$$10.349 \quad \text{INVALID-ORDER-349} \quad Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s}, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_4 g_m (C_1 R_1 s + 1) (C_L L_L s^2 + 1)}{(2C_L L_L s^2 + C_L R_4 s + 2) (C_1 R_1 g_m s + C_1 s + g_m)}$$

10.350 INVALID-ORDER-350 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_4 g_m s (C_1 R_1 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_L L_L R_4 s^2 + 2 L_L s + R_4)}$$

10.351 INVALID-ORDER-351 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 R_1 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2 C_L L_L s^2 + C_L R_4 s + 2 C_L R_L s + 2)}$$

10.352 INVALID-ORDER-352 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_4 R_L g_m s (C_1 R_1 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_L L_L R_4 R_L s^2 + L_L R_4 s + 2 L_L R_L s + R_4 R_L)}$$

10.353 INVALID-ORDER-353 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_4 g_m (C_1 R_1 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + 2 L_L s + R_4 + 2 R_L)}$$

10.354 INVALID-ORDER-354 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_4 R_L g_m (C_1 R_1 s + 1) (C_L L_L s^2 + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2 R_L)}$$

10.355 INVALID-ORDER-355 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1)}{s (2C_4 + C_L) (C_1 R_1 g_m s + C_1 s + g_m)}$$

10.356 INVALID-ORDER-356 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_L R_L s + 1)}{s (C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.357 INVALID-ORDER-357 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_L L_L s^2 + 1)}{s (C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_L s^2 + 2C_4 + C_L)}$$

10.358 INVALID-ORDER-358 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L g_m s (C_1 R_1 s + 1)}{(2C_4 L_L s^2 + C_L L_L s^2 + 1) (C_1 R_1 g_m s + C_1 s + g_m)}$$

10.359 INVALID-ORDER-359 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_L s^2 + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.360 INVALID-ORDER-360 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L g_m s (C_1 R_1 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.361 INVALID-ORDER-361 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_L R_L s^3 + 2C_4 L_L s^2 + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

10.362 INVALID-ORDER-362 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_L g_m (C_1 R_1 s + 1) (C_L L_L s^2 + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_L R_L s^3 + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.363 INVALID-ORDER-363 $Z(s) = \left(\infty, \infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 R_1 s + 1) (C_L R_L s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + C_L R_4 s + 2C_L R_L s + 2)}$$

10.364 INVALID-ORDER-364 $Z(s) = \left(\infty, \infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 R_1 s + 1) (C_L L_L s^2 + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_L R_4 s^3 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

10.365 INVALID-ORDER-365 $Z(s) = \left(\infty, \infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_4 g_m s (C_1 R_1 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 L_L R_4 s^2 + C_L L_L R_4 s^2 + 2L_L s + R_4)}$$

10.366 INVALID-ORDER-366 $Z(s) = \left(\infty, \infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 R_1 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_L R_4 s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

10.367 INVALID-ORDER-367 $Z(s) = \left(\infty, \infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_4 R_L g_m s (C_1 R_1 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 L_L R_4 R_L s^2 + C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

10.368 INVALID-ORDER-368 $Z(s) = \left(\infty, \infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_4 g_m (C_1 R_1 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_L R_4 R_L s^3 + 2C_4 L_L R_4 s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + 2L_L s + R_4 + 2R_L)}$$

10.369 INVALID-ORDER-369 $Z(s) = \left(\infty, \infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_4 R_L g_m (C_1 R_1 s + 1) (C_L L_L s^2 + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_L R_4 R_L s^3 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2R_L)}$$

10.370 INVALID-ORDER-370 $Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_4 R_4 s + 1)}{s (C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L R_4 s + 2C_4 + C_L)}$$

10.371 INVALID-ORDER-371 $Z(s) = \left(\infty, \infty, \infty, \infty, L_4s + \frac{1}{C_4s}, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{R_L g_m (C_1 R_1 s + 1) (C_4 R_4 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L R_4 R_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L R_L s + 1)}$$

10.372 INVALID-ORDER-372 $Z(s) = \left(\infty, \infty, \infty, \infty, L_4s + \frac{1}{C_4s}, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_4 R_4 s + 1) (C_L R_L s + 1)}{s (C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.373 INVALID-ORDER-373 $Z(s) = \left(\infty, \infty, \infty, \infty, L_4s + \frac{1}{C_4s}, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_4 R_4 s + 1) (C_L L_L s^2 + 1)}{s (C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

10.374 INVALID-ORDER-374 $Z(s) = \left(\infty, \infty, \infty, \infty, L_4s + \frac{1}{C_4s}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$

$$H(s) = \frac{L_L g_m s (C_1 R_1 s + 1) (C_4 R_4 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_L R_4 s^3 + 2C_4 L_L s^2 + C_4 R_4 s + C_L L_L s^2 + 1)}$$

10.375 INVALID-ORDER-375 $Z(s) = \left(\infty, \infty, \infty, \infty, L_4s + \frac{1}{C_4s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_4 R_4 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.376 INVALID-ORDER-376 $Z(s) = \left(\infty, \infty, \infty, \infty, L_4s + \frac{1}{C_4s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_L R_L g_m s (C_1 R_1 s + 1) (C_4 R_4 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_L R_4 R_L s^3 + C_4 L_L R_4 s^2 + 2C_4 L_L R_L s^2 + C_4 R_4 R_L s + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.377 INVALID-ORDER-377 $Z(s) = \left(\infty, \infty, \infty, \infty, L_4s + \frac{1}{C_4s}, \frac{L_Ls}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_4 R_4 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + 2C_4 L_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

10.378 INVALID-ORDER-378 $Z(s) = \left(\infty, \infty, \infty, \infty, L_4s + \frac{1}{C_4s}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_L g_m (C_1 R_1 s + 1) (C_4 R_4 s + 1) (C_L L_L s^2 + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.379 INVALID-ORDER-379 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4s}{C_4 L_4 s^2 + 1}, R_L \right)$

$$H(s) = \frac{R_L g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1)}{(C_4 L_4 s^2 + 2C_4 R_L s + 1) (C_1 R_1 g_m s + C_1 s + g_m)}$$

10.380 INVALID-ORDER-380 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4s}{C_4 L_4 s^2 + 1}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1)}{s (C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 s^2 + 2C_4 + C_L)}$$

10.381 INVALID-ORDER-381 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4s}{C_4 L_4 s^2 + 1}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 R_L s^3 + C_4 L_4 s^2 + 2C_4 R_L s + C_L R_L s + 1)}$$

10.382 INVALID-ORDER-382 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1) (C_L R_L s + 1)}{s (C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 s^2 + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

10.383 INVALID-ORDER-383 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{s (C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + 2 C_4 + C_L)}$$

10.384 INVALID-ORDER-384 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L g_m s (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + C_L L_L s^2 + 1)}$$

10.385 INVALID-ORDER-385 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

10.386 INVALID-ORDER-386 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L g_m s (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_L s^4 + C_4 L_4 L_L s^3 + C_4 L_4 R_L s^2 + 2 C_4 L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.387 INVALID-ORDER-387 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + 2 C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + 2 C_4 R_L s + C_L L_L s^2 + 1)}$$

10.388 INVALID-ORDER-388 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_L g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_L s^3 + 2 C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2 C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.389 INVALID-ORDER-389 $Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_L \right)$

$$H(s) = \frac{L_4 R_L g_m s (C_1 R_1 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2 C_4 L_4 R_L s^2 + L_4 s + 2 R_L)}$$

10.390 INVALID-ORDER-390 $Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 g_m s (C_1 R_1 s + 1)}{(2 C_4 L_4 s^2 + C_L L_4 s^2 + 2) (C_1 R_1 g_m s + C_1 s + g_m)}$$

10.391 INVALID-ORDER-391 $Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_4 R_L g_m s (C_1 R_1 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2 C_4 L_4 R_L s^2 + C_L L_4 R_L s^2 + L_4 s + 2 R_L)}$$

10.392 INVALID-ORDER-392 $Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 g_m s (C_1 R_1 s + 1) (C_L R_L s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2 C_4 C_L L_4 R_L s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L R_L s + 2)}$$

10.393 INVALID-ORDER-393 $Z(s) = \left(\infty, \infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_4g_ms(C_1R_1s+1)(C_LL_Ls^2+1)}{(C_1R_1g_ms+C_1s+g_m)(2C_4C_LL_LL_Ls^4+2C_4L_4s^2+C_LL_4s^2+2C_LL_Ls^2+2)}$$

10.394 INVALID-ORDER-394 $Z(s) = \left(\infty, \infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$

$$H(s) = \frac{L_4L_Lg_ms(C_1R_1s+1)}{(C_1R_1g_ms+C_1s+g_m)(2C_4L_4L_Ls^2+C_LL_4L_Ls^2+L_4+2L_L)}$$

10.395 INVALID-ORDER-395 $Z(s) = \left(\infty, \infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_4g_ms(C_1R_1s+1)(C_LL_Ls^2+C_LR_Ls+1)}{(C_1R_1g_ms+C_1s+g_m)(2C_4C_LL_LL_Ls^4+2C_4C_LL_4R_Ls^3+2C_4L_4s^2+C_LL_4s^2+2C_LL_Ls^2+2C_LR_Ls+2)}$$

10.396 INVALID-ORDER-396 $Z(s) = \left(\infty, \infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{1}{C_Ls+\frac{1}{R_L}+\frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_4L_LR_Lg_ms(C_1R_1s+1)}{(C_1R_1g_ms+C_1s+g_m)(2C_4L_4L_LR_Ls^2+C_LL_4L_LR_Ls^2+L_4L_Ls+L_4R_L+2L_LR_L)}$$

10.397 INVALID-ORDER-397 $Z(s) = \left(\infty, \infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$

$$H(s) = \frac{L_4g_ms(C_1R_1s+1)(C_LL_LR_Ls^2+L_Ls+R_L)}{(C_1R_1g_ms+C_1s+g_m)(2C_4C_LL_4L_LR_Ls^4+2C_4L_4L_Ls^3+2C_4L_4R_Ls^2+C_LL_4L_Ls^3+2C_LL_LR_Ls^2+L_4s+2L_Ls+2R_L)}$$

$$10.398 \quad \text{INVALID-ORDER-398} \quad Z(s) = \left(\infty, \infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_4 R_L g_m s (C_1 R_1 s + 1) (C_L L_L s^2 + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 L_L R_L s^4 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_4 R_L s^2 + 2C_L L_L R_L s^2 + L_4 s + 2R_L)}$$

$$10.399 \quad \text{INVALID-ORDER-399} \quad Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, R_L \right)$$

$$H(s) = \frac{R_L g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + 1)}$$

$$10.400 \quad \text{INVALID-ORDER-400} \quad Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

$$10.401 \quad \text{INVALID-ORDER-401} \quad Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_L g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + C_L R_L s + 1)}$$

$$10.402 \quad \text{INVALID-ORDER-402} \quad Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_L R_L s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 s^2 + C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.403 INVALID-ORDER-403 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4s + \frac{1}{R_4} + \frac{1}{L_4s}}, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_1R_1s + 1) (C_L L_L s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 s^2 + 2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

10.404 INVALID-ORDER-404 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4s + \frac{1}{R_4} + \frac{1}{L_4s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L g_m s (C_1 R_1 s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + C_4 L_4 s^2 + 2C_4 L_L s^2 + C_4 R_4 s + C_L L_L s^2 + 1)}$$

10.405 INVALID-ORDER-405 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4s + \frac{1}{R_4} + \frac{1}{L_4s}}, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 s^2 + 2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.406 INVALID-ORDER-406 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4s + \frac{1}{R_4} + \frac{1}{L_4s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L g_m s (C_1 R_1 s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 L_L s^3 + C_4 L_4 R_L s^2 + C_4 L_L R_4 s^2 + 2C_4 L_L R_L s^2 + C_4 R_4 R_L s + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.407 INVALID-ORDER-407 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4s + \frac{1}{R_4} + \frac{1}{L_4s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2C_4 L_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

$$10.408 \quad \text{INVALID-ORDER-408} \quad Z(s) = \left(\infty, \infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4} + \frac{1}{L_4 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_L g_m (C_1 R_1 s + 1) (C_L L_L s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_L s^3 + C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

$$10.409 \quad \text{INVALID-ORDER-409} \quad Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_L \right)$$

$$H(s) = \frac{L_4 R_4 R_L g_m s (C_1 R_1 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 L_4 R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

$$10.410 \quad \text{INVALID-ORDER-410} \quad Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 R_4 g_m s (C_1 R_1 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2L_4 s + 2R_4)}$$

$$10.411 \quad \text{INVALID-ORDER-411} \quad Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_4 R_4 R_L g_m s (C_1 R_1 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 L_4 R_4 R_L s^2 + C_L L_4 R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

$$10.412 \quad \text{INVALID-ORDER-412} \quad Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 R_4 g_m s (C_1 R_1 s + 1) (C_L R_L s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L R_4 R_L s + 2L_4 s + 2R_4)}$$

$$10.413 \quad \text{INVALID-ORDER-413} \quad Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 R_4 g_m s (C_1 R_1 s + 1) (C_L L_L s^2 + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_L R_4 s^2 + 2L_4 s + 2R_4)}$$

$$10.414 \quad \text{INVALID-ORDER-414} \quad Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_4 L_L R_4 g_m s (C_1 R_1 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 L_4 L_L R_4 s^2 + C_L L_4 L_L R_4 s^2 + 2L_4 L_L s + L_4 R_4 + 2L_L R_4)}$$

$$10.415 \quad \text{INVALID-ORDER-415} \quad Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 R_4 g_m s (C_1 R_1 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L L_L R_4 s^2 + 2C_L R_4 R_L s + 2L_4 s + 2R_4)}$$

$$10.416 \quad \text{INVALID-ORDER-416} \quad Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_4 L_L R_4 R_L g_m s (C_1 R_1 s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 L_4 L_L R_4 R_L s^2 + C_L L_4 L_L R_4 R_L s^2 + L_4 L_L R_4 s + 2L_4 L_L R_L s + L_4 R_4 R_L + 2L_L R_4 R_L)}$$

$$10.417 \quad \text{INVALID-ORDER-417} \quad Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_4 R_4 g_m s (C_1 R_1 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + 2C_L L_L R_4 R_L s^2 + 2L_4 L_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2L_L R_4 s)}$$

$$10.418 \quad \text{INVALID-ORDER-418} \quad Z(s) = \left(\infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_4 R_4 R_L g_m s (C_1 R_1 s + 1) (C_L L_L s^2 + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + C_L L_4 R_4 R_L s^2 + 2C_L L_L R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

10.419 INVALID-ORDER-419 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, R_L \right)$

$$H(s) = \frac{R_L g_m (C_1 R_1 s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + L_4 s + R_4 + 2 R_L)}$$

10.420 INVALID-ORDER-420 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 R_4 s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2)}$$

10.421 INVALID-ORDER-421 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L g_m (C_1 R_1 s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + C_L L_4 R_L s^2 + C_L R_4 R_L s + L_4 s + R_4 + 2 R_L)}$$

10.422 INVALID-ORDER-422 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_L R_L s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_4 R_L s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2 C_L R_L s + 2)}$$

10.423 INVALID-ORDER-423 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_L L_L s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 R_1 g_m s + C_1 s + g_m) (2 C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L L_L s^2 + C_L R_4 s + 2)}$$

10.424 INVALID-ORDER-424 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L g_m s (C_1 R_1 s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + L_4 s + 2L_L s + R_4)}$$

10.425 INVALID-ORDER-425 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_L L_L s^2 + C_L R_L s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 R_1 g_m s + C_1 s + g_m) (2 C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_4 R_L s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L L_L s^2 + C_L R_4 s + 2 C_L R_L s + 2)}$$

10.426 INVALID-ORDER-426 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L g_m s (C_1 R_1 s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_L s^3 + C_L L_L R_4 R_L s^2 + L_4 L_L s^2 + L_4 R_L s + L_L R_4 s + 2L_L R_L s +$$

10.427 INVALID-ORDER-427 $Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{g_m (C_1 R_1 s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 C_L L_4 L_L R_L s^4 + 2 C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + L_4 s + 2 L_L s + R_4 + 2)}$$

$$10.428 \quad \text{INVALID-ORDER-428} \quad Z(s) = \left(\infty, \infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_L g_m (C_1 R_1 s + 1) (C_L L_L s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_4 R_L s^2 + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + C_L$$

10.429 INVALID-ORDER-429 $Z(s) = (R_1, R_2, \infty, \infty, \infty, R_L)$

$$H(s) = \frac{R_4 R_L g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 R_4 R_L s + R_4 + 2R_L)}$$

10.430 INVALID-ORDER-430 $Z(s) = \left(R_1, R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{R_4 g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 R_4 s^3 + 2C_4 L_4 s^2 + 2C_4 R_4 s + C_L R_4 s + 2)}$$

10.431 INVALID-ORDER-431 $Z(s) = \left(R_1, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{R_4 R_L g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 R_4 R_L s + C_L R_4 R_L s + R_4 + 2R_L)}$$

10.432 INVALID-ORDER-432 $Z(s) = \left(R_1, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{R_4 g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1) (C_L R_L s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 L_4 s^2 + 2C_4 R_4 s + C_L R_4 s + 2C_L R_L s + 2)}$$

10.433 INVALID-ORDER-433 $Z(s) = \left(R_1, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{R_4 g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_L R_4 s^3 + 2C_4 L_4 s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

10.434 INVALID-ORDER-434 $Z(s) = \left(R_1, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L R_4 g_m s (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_L R_4 s^2 + C_L L_L R_4 s^2 + 2L_L s + R_4)}$$

10.435 INVALID-ORDER-435 $Z(s) = \left(R_1, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 C_L L_L R_4 s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 L_4 s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

10.436 INVALID-ORDER-436 $Z(s) = \left(R_1, R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_4 R_L g_m s (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + 2C_4 L_L R_4 R_L s^2 + C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

10.437 INVALID-ORDER-437 $Z(s) = \left(R_1, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_4 g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + 2C_4 C_L L_L R_4 R_L s^3 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 L_L R_4 s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2)}$$

10.438 INVALID-ORDER-438 $Z(s) = \left(R_1, R_2, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_4 R_L g_m (C_1 R_1 s + 1) (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + 2C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s)}$$

10.439 INVALID-ORDER-439 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 L_1 s^2 + 1)}{(C_L R_4 s + 2) (C_1 L_1 g_m s^2 + C_1 s + g_m)}$$

10.440 INVALID-ORDER-440 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_4 R_L g_m (C_1 L_1 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_L R_4 R_L s + R_4 + 2R_L)}$$

10.441 INVALID-ORDER-441 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 L_1 s^2 + 1) (C_L R_L s + 1)}{(C_L R_4 s + 2C_L R_L s + 2) (C_1 L_1 g_m s^2 + C_1 s + g_m)}$$

10.442 INVALID-ORDER-442 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{(2C_L L_L s^2 + C_L R_4 s + 2) (C_1 L_1 g_m s^2 + C_1 s + g_m)}$$

10.443 INVALID-ORDER-443 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_4 g_m s (C_1 L_1 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_L L_L R_4 s^2 + 2L_L s + R_4)}$$

10.444 INVALID-ORDER-444 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

10.445 INVALID-ORDER-445 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_4 R_L g_m s (C_1 L_1 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_L L_L R_4 R_L s^2 + L_L R_4 s + 2 L_L R_L s + R_4 R_L)}$$

10.446 INVALID-ORDER-446 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_4 g_m (C_1 L_1 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + 2 L_L s + R_4 + 2 R_L)}$$

10.447 INVALID-ORDER-447 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_4 R_L g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2 R_L)}$$

10.448 INVALID-ORDER-448 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_L g_m (C_1 L_1 s^2 + 1)}{(2 C_4 R_L s + 1) (C_1 L_1 g_m s^2 + C_1 s + g_m)}$$

10.449 INVALID-ORDER-449 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1)}{s (2 C_4 + C_L) (C_1 L_1 g_m s^2 + C_1 s + g_m)}$$

10.450 INVALID-ORDER-450 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L g_m (C_1 L_1 s^2 + 1)}{(2C_4 R_L s + C_L R_L s + 1) (C_1 L_1 g_m s^2 + C_1 s + g_m)}$$

10.451 INVALID-ORDER-451 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_L R_L s + 1)}{s (C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.452 INVALID-ORDER-452 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{s (C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_L s^2 + 2C_4 + C_L)}$$

10.453 INVALID-ORDER-453 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L g_m s (C_1 L_1 s^2 + 1)}{(2C_4 L_L s^2 + C_L L_L s^2 + 1) (C_1 L_1 g_m s^2 + C_1 s + g_m)}$$

10.454 INVALID-ORDER-454 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_L s^2 + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.455 INVALID-ORDER-455 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L g_m s (C_1 L_1 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.456 INVALID-ORDER-456 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_L R_L s^3 + 2C_4 L_L s^2 + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

10.457 INVALID-ORDER-457 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_L g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_L R_L s^3 + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.458 INVALID-ORDER-458 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_4 R_L g_m (C_1 L_1 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 R_4 R_L s + R_4 + 2R_L)}$$

10.459 INVALID-ORDER-459 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 L_1 s^2 + 1)}{(2C_4 R_4 s + C_L R_4 s + 2) (C_1 L_1 g_m s^2 + C_1 s + g_m)}$$

10.460 INVALID-ORDER-460 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_4 R_L g_m (C_1 L_1 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 R_4 R_L s + C_L R_4 R_L s + R_4 + 2R_L)}$$

10.461 INVALID-ORDER-461 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 L_1 s^2 + 1) (C_L R_L s + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + C_L R_4 s + 2C_L R_L s + 2)}$$

10.462 INVALID-ORDER-462 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_L R_4 s^3 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

10.463 INVALID-ORDER-463 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_4 g_m s (C_1 L_1 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 L_L R_4 s^2 + C_L L_L R_4 s^2 + 2L_L s + R_4)}$$

10.464 INVALID-ORDER-464 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_L R_4 s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

10.465 INVALID-ORDER-465 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_4 R_L g_m s (C_1 L_1 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 L_L R_4 R_L s^2 + C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

10.466 INVALID-ORDER-466 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_4 g_m (C_1 L_1 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_L R_4 R_L s^3 + 2C_4 L_L R_4 s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + 2L_L s + R_4 + 2R_L)}$$

10.467 INVALID-ORDER-467 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_4 R_L g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_L R_4 R_L s^3 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2R_L)}$$

10.468 INVALID-ORDER-468 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_L g_m (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1)}{(C_4 R_4 s + 2C_4 R_L s + 1) (C_1 L_1 g_m s^2 + C_1 s + g_m)}$$

10.469 INVALID-ORDER-469 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1)}{s (C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L R_4 s + 2C_4 + C_L)}$$

10.470 INVALID-ORDER-470 $Z(s) = \left(R_1, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{R_L g_m (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L R_4 R_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L R_L s + 1)}$$

10.471 INVALID-ORDER-471 $Z(s) = \left(R_1, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1) (C_L R_L s + 1)}{s (C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.472 INVALID-ORDER-472 $Z(s) = \left(R_1, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1) (C_L L_L s^2 + 1)}{s (C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

10.473 INVALID-ORDER-473 $Z(s) = \left(R_1, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} \right)$

$$H(s) = \frac{L_L g_m s (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_L R_4 s^3 + 2C_4 L_L s^2 + C_4 R_4 s + C_L L_L s^2 + 1)}$$

10.474 INVALID-ORDER-474 $Z(s) = \left(R_1, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.475 INVALID-ORDER-475 $Z(s) = \left(R_1, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_L R_L g_m s (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_L R_4 R_L s^3 + C_4 L_L R_4 s^2 + 2C_4 L_L R_L s^2 + C_4 R_4 R_L s + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.476 INVALID-ORDER-476 $Z(s) = \left(R_1, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + 2C_4 L_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

10.477 INVALID-ORDER-477 $Z(s) = \left(R_1, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_L g_m (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.478 INVALID-ORDER-478 $Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_L g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1)}{(C_4 L_4 s^2 + 2C_4 R_L s + 1) (C_1 L_1 g_m s^2 + C_1 s + g_m)}$$

10.479 INVALID-ORDER-479 $Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1)}{s (C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 s^2 + 2C_4 + C_L)}$$

10.480 INVALID-ORDER-480 $Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{R_Lg_m (C_1L_1s^2 + 1) (C_4L_4s^2 + 1)}{(C_1L_1g_ms^2 + C_1s + g_m) (C_4C_LL_4R_Ls^3 + C_4L_4s^2 + 2C_4R_Ls + C_LR_Ls + 1)}$$

10.481 INVALID-ORDER-481 $Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_1L_1s^2 + 1) (C_4L_4s^2 + 1) (C_LR_Ls + 1)}{s (C_1L_1g_ms^2 + C_1s + g_m) (C_4C_LL_4s^2 + 2C_4C_LR_Ls + 2C_4 + C_L)}$$

10.482 INVALID-ORDER-482 $Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_1L_1s^2 + 1) (C_4L_4s^2 + 1) (C_LL_Ls^2 + 1)}{s (C_1L_1g_ms^2 + C_1s + g_m) (C_4C_LL_4s^2 + 2C_4C_LL_Ls^2 + 2C_4 + C_L)}$$

10.483 INVALID-ORDER-483 $Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} \right)$

$$H(s) = \frac{L_Lg_ms (C_1L_1s^2 + 1) (C_4L_4s^2 + 1)}{(C_1L_1g_ms^2 + C_1s + g_m) (C_4C_LL_4L_Ls^4 + C_4L_4s^2 + 2C_4L_Ls^2 + C_LL_Ls^2 + 1)}$$

10.484 INVALID-ORDER-484 $Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_1L_1s^2 + 1) (C_4L_4s^2 + 1) (C_LL_Ls^2 + C_LR_Ls + 1)}{s (C_1L_1g_ms^2 + C_1s + g_m) (C_4C_LL_4s^2 + 2C_4C_LL_Ls^2 + 2C_4C_LR_Ls + 2C_4 + C_L)}$$

$$10.485 \quad \text{INVALID-ORDER-485} \quad Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$$

$$H(s) = \frac{L_LR_Lg_ms(C_1L_1s^2 + 1)(C_4L_4s^2 + 1)}{(C_1L_1g_ms^2 + C_1s + g_m)(C_4C_LL_4L_LR_Ls^4 + C_4L_4L_Ls^3 + C_4L_4R_Ls^2 + 2C_4L_LR_Ls^2 + C_LL_LR_Ls^2 + L_Ls + R_L)}$$

$$10.486 \quad \text{INVALID-ORDER-486} \quad Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1} + R_L \right)$$

$$H(s) = \frac{g_m(C_1L_1s^2 + 1)(C_4L_4s^2 + 1)(C_LL_LR_Ls^2 + L_Ls + R_L)}{(C_1L_1g_ms^2 + C_1s + g_m)(C_4C_LL_4L_Ls^4 + 2C_4C_LL_LR_Ls^3 + C_4L_4s^2 + 2C_4L_Ls^2 + 2C_4R_Ls + C_LL_Ls^2 + 1)}$$

$$10.487 \quad \text{INVALID-ORDER-487} \quad Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$$

$$H(s) = \frac{R_Lg_m(C_1L_1s^2 + 1)(C_4L_4s^2 + 1)(C_LL_Ls^2 + 1)}{(C_1L_1g_ms^2 + C_1s + g_m)(C_4C_LL_4L_Ls^4 + C_4C_LL_4R_Ls^3 + 2C_4C_LL_LR_Ls^3 + C_4L_4s^2 + 2C_4R_Ls + C_LL_Ls^2 + C_LR_Ls + 1)}$$

$$10.488 \quad \text{INVALID-ORDER-488} \quad Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2 + 1} + R_2, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{L_4R_Lg_ms(C_1L_1s^2 + 1)}{(C_1L_1g_ms^2 + C_1s + g_m)(2C_4L_4R_Ls^2 + L_4s + 2R_L)}$$

$$10.489 \quad \text{INVALID-ORDER-489} \quad Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_Ls} \right)$$

$$H(s) = \frac{L_4g_ms(C_1L_1s^2 + 1)}{(2C_4L_4s^2 + C_LL_4s^2 + 2)(C_1L_1g_ms^2 + C_1s + g_m)}$$

10.490 INVALID-ORDER-490 $Z(s) = \left(R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_4 R_L g_m s (C_1 L_1 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 L_4 R_L s^2 + C_L L_4 R_L s^2 + L_4 s + 2R_L)}$$

10.491 INVALID-ORDER-491 $Z(s) = \left(R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 g_m s (C_1 L_1 s^2 + 1) (C_L R_L s + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_4 R_L s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L R_L s + 2)}$$

10.492 INVALID-ORDER-492 $Z(s) = \left(R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 g_m s (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_4 L_L s^4 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + 2)}$$

10.493 INVALID-ORDER-493 $Z(s) = \left(R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_4 L_L g_m s (C_1 L_1 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 L_4 L_L s^2 + C_L L_4 L_L s^2 + L_4 + 2L_L)}$$

10.494 INVALID-ORDER-494 $Z(s) = \left(R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 g_m s (C_1 L_1 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_4 L_L s^4 + 2C_4 C_L L_4 R_L s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + 2C_L R_L s + 2)}$$

10.495 INVALID-ORDER-495 $Z(s) = \left(R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_4 L_L R_L g_m s (C_1 L_1 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 L_4 L_L R_L s^2 + C_L L_4 L_L R_L s^2 + L_4 L_L s + L_4 R_L + 2L_L R_L)}$$

10.496 INVALID-ORDER-496 $Z(s) = \left(R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_4 g_m s (C_1 L_1 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_4 L_L R_L s^4 + 2C_4 L_4 L_L s^3 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + 2C_L L_L R_L s^2 + L_4 s + 2L_L s + 2R_L)}$$

10.497 INVALID-ORDER-497 $Z(s) = \left(R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_4 R_L g_m s (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_4 L_L R_L s^4 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_4 R_L s^2 + 2C_L L_L R_L s^2 + L_4 s + 2R_L)}$$

10.498 INVALID-ORDER-498 $Z(s) = \left(R_1, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_L g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + 1)}$$

10.499 INVALID-ORDER-499 $Z(s) = \left(R_1, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

10.500 INVALID-ORDER-500 $Z(s) = \left(R_1, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + C_L R_L s + 1)}$$

10.501 INVALID-ORDER-501 $Z(s) = \left(R_1, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_L R_L s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 s^2 + C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.502 INVALID-ORDER-502 $Z(s) = \left(R_1, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 s^2 + 2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

10.503 INVALID-ORDER-503 $Z(s) = \left(R_1, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L g_m s (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + C_4 L_4 s^2 + 2C_4 L_L s^2 + C_4 R_4 s + C_L L_L s^2 + 1)}$$

10.504 INVALID-ORDER-504 $Z(s) = \left(R_1, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 s^2 + 2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

$$10.505 \quad \text{INVALID-ORDER-505} \quad Z(s) = \left(R_1, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_L R_L g_m s (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 L_L s^3 + C_4 L_4 R_L s^2 + C_4 L_L R_4 s^2 + 2C_4 L_L R_L s^2 + C_4 R_4 R_L s + C_L L_L R_L s^2 + L_L s + R_L)}$$

$$10.506 \quad \text{INVALID-ORDER-506} \quad Z(s) = \left(R_1, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2C_4 L_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

$$10.507 \quad \text{INVALID-ORDER-507} \quad Z(s) = \left(R_1, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_L g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_L s^3 + C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

$$10.508 \quad \text{INVALID-ORDER-508} \quad Z(s) = (L_1 s, R_2, \infty, \infty, \infty, R_L)$$

$$H(s) = \frac{L_4 R_4 R_L g_m s (C_1 L_1 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 L_4 R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

$$10.509 \quad \text{INVALID-ORDER-509} \quad Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 R_4 g_m s (C_1 L_1 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2L_4 s + 2R_4)}$$

10.510 INVALID-ORDER-510 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_4 R_4 R_L g_m s (C_1 L_1 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 L_4 R_4 R_L s^2 + C_L L_4 R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

10.511 INVALID-ORDER-511 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_4 g_m s (C_1 L_1 s^2 + 1) (C_L R_L s + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L R_4 R_L s + 2L_4 s + 2R_4)}$$

10.512 INVALID-ORDER-512 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_4 g_m s (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_L R_4 s^2 + 2L_4 s + 2R_4)}$$

10.513 INVALID-ORDER-513 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_4 L_L R_4 g_m s (C_1 L_1 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 L_4 L_L R_4 s^2 + C_L L_4 L_L R_4 s^2 + 2L_4 L_L s + L_4 R_4 + 2L_L R_4)}$$

10.514 INVALID-ORDER-514 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_4 g_m s (C_1 L_1 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L L_L R_4 s^2 + 2C_L R_4 R_L s + 2L_4 s + 2R_4)}$$

10.515 INVALID-ORDER-515 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_4 L_L R_4 R_L g_m s (C_1 L_1 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 L_4 L_L R_4 R_L s^2 + C_L L_4 L_L R_4 R_L s^2 + L_4 L_L R_4 s + 2L_4 L_L R_L s + L_4 R_4 R_L + 2L_L R_4 R_L)}$$

10.516 INVALID-ORDER-516 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_4 R_4 g_m s (C_1 L_1 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + 2C_L L_L R_4 R_L s^2 + 2L_4 L_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2L_L R_4 R_L)}$$

10.517 INVALID-ORDER-517 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_4 R_4 R_L g_m s (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + C_L L_4 R_4 R_L s^2 + 2C_L L_L R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

10.518 INVALID-ORDER-518 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_L g_m (C_1 L_1 s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + L_4 s + R_4 + 2R_L)}$$

10.519 INVALID-ORDER-519 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 R_4 s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2)}$$

10.520 INVALID-ORDER-520 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L g_m (C_1 L_1 s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + C_L L_4 R_L s^2 + C_L R_4 R_L s + L_4 s + R_4 + 2 R_L)}$$

10.521 INVALID-ORDER-521 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_L R_L s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_4 R_L s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2 C_L R_L s + 2)}$$

10.522 INVALID-ORDER-522 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2 C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L L_L s^2 + C_L R_4 s + 2)}$$

10.523 INVALID-ORDER-523 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L g_m s (C_1 L_1 s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + L_4 s + 2 L_L s + R_4)}$$

10.524 INVALID-ORDER-524 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2 C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_4 R_L s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L L_L s^2 + C_L R_4 s + 2 C_L R_L s + 2)}$$

10.525 INVALID-ORDER-525 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{L_L s}}} \right)$

$$H(s) = \frac{L_L R_L g_m s (C_1 L_1 s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2 C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_L s^3 + C_L L_L R_4 R_L s^2 + L_4 L_L s^2 + L_4 R_L s + L_L R_4 s + 2 L_L R_L s)}$$

10.526 INVALID-ORDER-526 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 C_L L_4 L_L R_L s^4 + 2 C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + L_4 s + 2 L_L s + R_4 + 2 R_L)}$$

10.527 INVALID-ORDER-527 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_L g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_4 R_L s^2 + C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + C_L R_4 s + R_4)}$$

10.528 INVALID-ORDER-528 $Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_4 R_L g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + 2 C_4 R_4 R_L s + R_4 + 2 R_L)}$$

10.529 INVALID-ORDER-529 $Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 R_4 s^3 + 2 C_4 L_4 s^2 + 2 C_4 R_4 s + C_L R_4 s + 2)}$$

10.530 INVALID-ORDER-530 $Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_4 R_L g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 R_4 R_L s + C_L R_4 R_L s + R_4 + 2R_L)}$$

10.531 INVALID-ORDER-531 $Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1) (C_L R_L s + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 L_4 s^2 + 2C_4 R_4 s + C_L R_4 s + 2C_L R_L s + 2)}$$

10.532 INVALID-ORDER-532 $Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_L R_4 s^3 + 2C_4 L_4 s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

10.533 INVALID-ORDER-533 $Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_4 g_m s (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_L R_4 s^2 + C_L L_L R_4 s^2 + 2L_L s + R_4)}$$

10.534 INVALID-ORDER-534 $Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 C_L L_L R_4 s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 L_4 s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

$$\mathbf{10.535 \quad INVALID-ORDER-535} \quad Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_L R_4 R_L g_m s (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + 2C_4 L_L R_4 R_L s^2 + C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

$$\mathbf{10.536 \quad INVALID-ORDER-536} \quad Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{R_4 g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + 2C_4 C_L L_L R_4 R_L s^3 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 L_L R_4 s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s + R_4 R_L)}$$

$$\mathbf{10.537 \quad INVALID-ORDER-537} \quad Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_4 R_L g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 g_m s^2 + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + 2C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s + R_4 R_L)}$$

$$\mathbf{10.538 \quad INVALID-ORDER-538} \quad Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 R_4 g_m s}{(C_L R_4 s + 2) (C_1 L_1 s^2 + L_1 g_m s + 1)}$$

$$\mathbf{10.539 \quad INVALID-ORDER-539} \quad Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_1 R_4 R_L g_m s}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_L R_4 R_L s + R_4 + 2R_L)}$$

10.540 INVALID-ORDER-540 $Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_L R_L s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_L R_4 s + 2 C_L R_L s + 2)}$$

10.541 INVALID-ORDER-541 $Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_L L_L s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2 C_L L_L s^2 + C_L R_4 s + 2)}$$

10.542 INVALID-ORDER-542 $Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_L R_4 g_m s^2}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_L L_L R_4 s^2 + 2 L_L s + R_4)}$$

10.543 INVALID-ORDER-543 $Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2 C_L L_L s^2 + C_L R_4 s + 2 C_L R_L s + 2)}$$

10.544 INVALID-ORDER-544 $Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_1 L_L R_4 R_L g_m s^2}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_L L_L R_4 R_L s^2 + L_L R_4 s + 2 L_L R_L s + R_4 R_L)}$$

10.545 INVALID-ORDER-545 $Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + 2 L_L s + R_4 + 2 R_L)}$$

$$10.546 \quad \text{INVALID-ORDER-546} \quad Z(s) = \left(L_1 s, \quad R_2 + \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_1 R_4 R_L g_m s (C_L L_L s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2 R_L)}$$

$$10.547 \quad \text{INVALID-ORDER-547} \quad Z(s) = \left(L_1 s, \quad L_2 s + \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad R_L \right)$$

$$H(s) = \frac{L_1 R_L g_m s}{(2 C_4 R_L s + 1) (C_1 L_1 s^2 + L_1 g_m s + 1)}$$

$$10.548 \quad \text{INVALID-ORDER-548} \quad Z(s) = \left(L_1 s, \quad L_2 s + \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_1 R_L g_m s}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2 C_4 R_L s + C_L R_L s + 1)}$$

$$10.549 \quad \text{INVALID-ORDER-549} \quad Z(s) = \left(L_1 s, \quad L_2 s + \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 g_m (C_L R_L s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

$$10.550 \quad \text{INVALID-ORDER-550} \quad Z(s) = \left(L_1 s, \quad L_2 s + \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 g_m (C_L L_L s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2 C_4 C_L L_L s^2 + 2 C_4 + C_L)}$$

$$10.551 \quad \text{INVALID-ORDER-551} \quad Z(s) = \left(L_1 s, \quad L_2 s + \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_1 L_L g_m s^2}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2 C_4 L_L s^2 + C_L L_L s^2 + 1)}$$

10.552 INVALID-ORDER-552 $Z(s) = \left(L_1 s, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 C_L L_L s^2 + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.553 INVALID-ORDER-553 $Z(s) = \left(L_1 s, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_1 L_L R_L g_m s^2}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.554 INVALID-ORDER-554 $Z(s) = \left(L_1 s, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_1 g_m s (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 C_L L_L R_L s^3 + 2C_4 L_L s^2 + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

10.555 INVALID-ORDER-555 $Z(s) = \left(L_1 s, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_1 R_L g_m s (C_L L_L s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 C_L L_L R_L s^3 + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.556 INVALID-ORDER-556 $Z(s) = \left(L_1 s, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_1 R_4 R_L g_m s}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 R_4 R_L s + R_4 + 2R_L)}$$

10.557 INVALID-ORDER-557 $Z(s) = \left(L_1 s, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_4 g_m s}{(C_1 L_1 s^2 + L_1 g_m s + 1)(2C_4 R_4 s + C_L R_4 s + 2)}$$

10.558 INVALID-ORDER-558 $Z(s) = \left(L_1 s, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_1 R_4 R_L g_m s}{(C_1 L_1 s^2 + L_1 g_m s + 1)(2C_4 R_4 R_L s + C_L R_4 R_L s + R_4 + 2R_L)}$$

10.559 INVALID-ORDER-559 $Z(s) = \left(L_1 s, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_L R_L s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1)(2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + C_L R_4 s + 2C_L R_L s + 2)}$$

10.560 INVALID-ORDER-560 $Z(s) = \left(L_1 s, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_L L_L s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1)(2C_4 C_L L_L R_4 s^3 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

10.561 INVALID-ORDER-561 $Z(s) = \left(L_1 s, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_L R_4 g_m s^2}{(C_1 L_1 s^2 + L_1 g_m s + 1)(2C_4 L_L R_4 s^2 + C_L L_L R_4 s^2 + 2L_L s + R_4)}$$

10.562 INVALID-ORDER-562 $Z(s) = \left(L_1 s, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1)(2C_4 C_L L_L R_4 s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

10.563 INVALID-ORDER-563 $Z(s) = \left(L_1s, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_1L_LR_4R_Lg_ms^2}{(C_1L_1s^2 + L_1g_ms + 1)(2C_4L_LR_4R_Ls^2 + C_LL_LR_4R_Ls^2 + L_LR_4s + 2L_LR_Ls + R_4R_L)}$$

10.564 INVALID-ORDER-564 $Z(s) = \left(L_1s, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1} + R_L \right)$

$$H(s) = \frac{L_1R_4g_ms(C_LL_LR_Ls^2 + L_Ls + R_L)}{(C_1L_1s^2 + L_1g_ms + 1)(2C_4C_LL_LR_4R_Ls^3 + 2C_4L_LR_4s^2 + 2C_4R_4R_Ls + C_LL_LR_4s^2 + 2C_LL_LR_Ls^2 + 2L_Ls + R_4 + 2R_L)}$$

10.565 INVALID-ORDER-565 $Z(s) = \left(L_1s, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$

$$H(s) = \frac{L_1R_4R_Lg_ms(C_LL_Ls^2 + 1)}{(C_1L_1s^2 + L_1g_ms + 1)(2C_4C_LL_LR_4R_Ls^3 + 2C_4R_4R_Ls + C_LL_LR_4s^2 + 2C_LL_LR_Ls^2 + C_LR_4R_Ls + R_4 + 2R_L)}$$

10.566 INVALID-ORDER-566 $Z(s) = \left(L_1s, \frac{L_2s}{C_2L_2s^2 + 1} + R_2, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_1R_Lg_ms(C_4R_4s + 1)}{(C_1L_1s^2 + L_1g_ms + 1)(C_4R_4s + 2C_4R_Ls + 1)}$$

10.567 INVALID-ORDER-567 $Z(s) = \left(L_1s, \frac{L_2s}{C_2L_2s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_1g_m(C_4R_4s + 1)}{(C_1L_1s^2 + L_1g_ms + 1)(C_4C_LR_4s + 2C_4 + C_L)}$$

10.568 INVALID-ORDER-568 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_1 R_L g_m s (C_4 R_4 s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L R_4 R_L s^2 + C_4 R_4 s + 2 C_4 R_L s + C_L R_L s + 1)}$$

10.569 INVALID-ORDER-569 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m (C_4 R_4 s + 1) (C_L R_L s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L R_4 s + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

10.570 INVALID-ORDER-570 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m (C_4 R_4 s + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2 C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2 C_4 + C_L)}$$

10.571 INVALID-ORDER-571 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_L g_m s^2 (C_4 R_4 s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_L R_4 s^3 + 2 C_4 L_L s^2 + C_4 R_4 s + C_L L_L s^2 + 1)}$$

10.572 INVALID-ORDER-572 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m (C_4 R_4 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2 C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

10.573 INVALID-ORDER-573 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_1 L_L R_L g_m s^2 (C_4 R_4 s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_L R_4 R_L s^3 + C_4 L_L R_4 s^2 + 2 C_4 L_L R_L s^2 + C_4 R_4 R_L s + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.574 INVALID-ORDER-574 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_1 g_m s (C_4 R_4 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_L R_4 s^3 + 2 C_4 C_L L_L R_L s^3 + 2 C_4 L_L s^2 + C_4 R_4 s + 2 C_4 R_L s + C_L L_L s^2 + 1)}$$

10.575 INVALID-ORDER-575 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_1 R_L g_m s (C_4 R_4 s + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_L R_4 s^3 + 2 C_4 C_L L_L R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 R_4 s + 2 C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.576 INVALID-ORDER-576 $Z(s) = \left(L_1 s, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_1 R_L g_m s (C_4 L_4 s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 L_4 s^2 + 2 C_4 R_L s + 1)}$$

10.577 INVALID-ORDER-577 $Z(s) = \left(L_1 s, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m (C_4 L_4 s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 s^2 + 2 C_4 + C_L)}$$

10.578 INVALID-ORDER-578 $Z(s) = \left(L_1 s, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_1 R_L g_m s (C_4 L_4 s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 R_L s^3 + C_4 L_4 s^2 + 2 C_4 R_L s + C_L R_L s + 1)}$$

10.579 INVALID-ORDER-579 $Z(s) = \left(L_1 s, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m (C_4 L_4 s^2 + 1) (C_L R_L s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 s^2 + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

10.580 INVALID-ORDER-580 $Z(s) = \left(L_1 s, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + 2 C_4 + C_L)}$$

10.581 INVALID-ORDER-581 $Z(s) = \left(L_1 s, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_L g_m s^2 (C_4 L_4 s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 L_L s^4 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + C_L L_L s^2 + 1)}$$

10.582 INVALID-ORDER-582 $Z(s) = \left(L_1 s, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

10.583 INVALID-ORDER-583 $Z(s) = \left(L_1 s, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_1 L_L R_L g_m s^2 (C_4 L_4 s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 L_L R_L s^4 + C_4 L_4 L_L s^3 + C_4 L_4 R_L s^2 + 2 C_4 L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L)}$$

$$10.584 \quad \text{INVALID-ORDER-584} \quad Z(s) = \left(L_1 s, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_1 g_m s (C_4 L_4 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 L_L s^4 + 2 C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + 2 C_4 R_L s + C_L L_L s^2 + 1)}$$

$$10.585 \quad \text{INVALID-ORDER-585} \quad Z(s) = \left(L_1 s, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_1 R_L g_m s (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_L s^3 + 2 C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2 C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

$$10.586 \quad \text{INVALID-ORDER-586} \quad Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{L_1 L_4 R_L g_m s^2}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2 C_4 L_4 R_L s^2 + L_4 s + 2 R_L)}$$

$$10.587 \quad \text{INVALID-ORDER-587} \quad Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 L_4 g_m s^2}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2 C_4 L_4 s^2 + C_L L_4 s^2 + 2)}$$

$$10.588 \quad \text{INVALID-ORDER-588} \quad Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_1 L_4 R_L g_m s^2}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2 C_4 L_4 R_L s^2 + C_L L_4 R_L s^2 + L_4 s + 2 R_L)}$$

10.589 INVALID-ORDER-589 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 L_4 g_m s^2 (C_L R_L s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 C_L L_4 R_L s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L R_L s + 2)}$$

10.590 INVALID-ORDER-590 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 L_4 g_m s^2 (C_L L_L s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 C_L L_4 L_L s^4 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + 2)}$$

10.591 INVALID-ORDER-591 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_4 L_L g_m s^2}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 L_4 L_L s^2 + C_L L_4 L_L s^2 + L_4 + 2L_L)}$$

10.592 INVALID-ORDER-592 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 L_4 g_m s^2 (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 C_L L_4 L_L s^4 + 2C_4 C_L L_4 R_L s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + 2C_L R_L s + 2)}$$

10.593 INVALID-ORDER-593 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_1 L_4 L_L R_L g_m s^2}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 L_4 L_L R_L s^2 + C_L L_4 L_L R_L s^2 + L_4 L_L s + L_4 R_L + 2L_L R_L)}$$

10.594 INVALID-ORDER-594 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_1 L_4 g_m s^2 (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 C_L L_4 L_L R_L s^4 + 2C_4 L_4 L_L s^3 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + 2C_L L_L R_L s^2 + L_4 s + 2L_L s + 2R_L)}$$

10.595 INVALID-ORDER-595 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_1 L_4 R_L g_m s^2 (C_L L_L s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 C_L L_4 L_L R_L s^4 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_4 R_L s^2 + 2C_L L_L R_L s^2 + L_4 s + 2R_L)}$$

10.596 INVALID-ORDER-596 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_1 R_L g_m s (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + 1)}$$

10.597 INVALID-ORDER-597 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

10.598 INVALID-ORDER-598 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_1 R_L g_m s (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + C_L R_L s + 1)}$$

10.599 INVALID-ORDER-599 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m (C_L R_L s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 s^2 + C_4 C_L R_4 s + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

10.600 INVALID-ORDER-600 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m (C_L L_L s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2 C_4 + C_L)}$$

10.601 INVALID-ORDER-601 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_L g_m s^2 (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + C_4 R_4 s + C_L L_L s^2 + 1)}$$

10.602 INVALID-ORDER-602 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

10.603 INVALID-ORDER-603 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_1 L_L R_L g_m s^2 (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 L_L s^3 + C_4 L_4 R_L s^2 + C_4 L_L R_4 s^2 + 2 C_4 L_L R_L s^2 + C_4 R_4 R_L s + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.604 INVALID-ORDER-604 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_1 g_m s (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2C_4 L_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

10.605 INVALID-ORDER-605 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_1 R_L g_m s (C_L L_L s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_L s^3 + C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.606 INVALID-ORDER-606 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_1 L_4 R_4 R_L g_m s^2}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 L_4 R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

10.607 INVALID-ORDER-607 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 L_4 R_4 g_m s^2}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2L_4 s + 2R_4)}$$

10.608 INVALID-ORDER-608 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_1 L_4 R_4 R_L g_m s^2}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 L_4 R_4 R_L s^2 + C_L L_4 R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

10.609 INVALID-ORDER-609 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 L_4 R_4 g_m s^2 (C_L R_L s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L R_4 R_L s + 2L_4 s + 2R_4)}$$

10.610 INVALID-ORDER-610 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 L_4 R_4 g_m s^2 (C_L L_L s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_L R_4 s^2 + 2L_4 s + 2R_4)}$$

10.611 INVALID-ORDER-611 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_4 L_L R_4 g_m s^2}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 L_4 L_L R_4 s^2 + C_L L_4 L_L R_4 s^2 + 2L_4 L_L s + L_4 R_4 + 2L_L R_4)}$$

10.612 INVALID-ORDER-612 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 L_4 R_4 g_m s^2 (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L L_L R_4 s^2 + 2C_L R_4 R_L s + 2L_4 s + 2R_4)}$$

10.613 INVALID-ORDER-613 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_1 L_4 L_L R_4 R_L g_m s^2}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 L_4 L_L R_4 R_L s^2 + C_L L_4 L_L R_4 R_L s^2 + L_4 L_L R_4 s + 2L_4 L_L R_L s + L_4 R_4 R_L + 2L_L R_4 R_L)}$$

$$10.614 \quad \text{INVALID-ORDER-614} \quad Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_1 L_4 R_4 g_m s^2 (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + 2C_L L_L R_4 R_L s^2 + 2L_4 L_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2L_L s)}$$

$$10.615 \quad \text{INVALID-ORDER-615} \quad Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_1 L_4 R_4 R_L g_m s^2 (C_L L_L s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + C_L L_4 R_4 R_L s^2 + 2C_L L_L R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

$$10.616 \quad \text{INVALID-ORDER-616} \quad Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{L_1 R_L g_m s (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + L_4 s + R_4 + 2R_L)}$$

$$10.617 \quad \text{INVALID-ORDER-617} \quad Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 g_m s (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 R_4 s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2)}$$

$$10.618 \quad \text{INVALID-ORDER-618} \quad Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_1 R_L g_m s (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 R_L s^2 + C_L R_4 R_L s + L_4 s + R_4 + 2R_L)}$$

10.619 INVALID-ORDER-619 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m s (C_L R_L s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_4 R_L s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2 C_L R_L s + 2)}$$

10.620 INVALID-ORDER-620 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m s (C_L L_L s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2 C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L L_L s^2 + C_L R_4 s + 2)}$$

10.621 INVALID-ORDER-621 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_L g_m s^2 (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + L_4 s + 2 L_L s + R_4)}$$

10.622 INVALID-ORDER-622 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 g_m s (C_L L_L s^2 + C_L R_L s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2 C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_4 R_L s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L L_L s^2 + C_L R_4 s + 2 C_L R_L s + 2)}$$

10.623 INVALID-ORDER-623 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_1 L_L R_L g_m s^2 (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2 C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_L s^3 + C_L L_L R_4 R_L s^2 + L_4 L_L s^2 + L_4 R_L s + L_L R_4 s + 2 L_L R_L s + 2)}$$

10.624 INVALID-ORDER-624 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_1 g_m s (C_4 L_4 R_4 s^2 + L_4 s + R_4) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 C_L L_4 L_L R_L s^4 + 2 C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + L_4 s + 2 L_L s + R_4 + 2 R_L)}$$

10.625 INVALID-ORDER-625 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_1 R_L g_m s (C_L L_L s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_4 R_L s^2 + C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + C_L L_L R_4)}$$

10.626 INVALID-ORDER-626 $Z(s) = \left(\frac{1}{C_{1s}}, L_2s + \frac{1}{C_{2s}}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_1 R_4 R_L g_m s (C_4 L_4 s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + 2 C_4 R_4 R_L s + R_4 + 2 R_L)}$$

10.627 INVALID-ORDER-627 $Z(s) = \left(\frac{1}{C_{1s}}, L_2s + \frac{1}{C_{2s}}, \infty, \infty, \infty, \frac{1}{C_{Ls}} \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_4 L_4 s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 R_4 s^3 + 2 C_4 L_4 s^2 + 2 C_4 R_4 s + C_L R_4 s + 2)}$$

10.628 INVALID-ORDER-628 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_1 R_4 R_L g_m s (C_4 L_4 s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + 2 C_4 R_4 R_L s + C_L R_4 R_L s + R_4 + 2 R_L)}$$

10.629 INVALID-ORDER-629 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_4 L_4 s^2 + 1) (C_L R_L s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_4 R_L s^3 + 2 C_4 C_L R_4 R_L s^2 + 2 C_4 L_4 s^2 + 2 C_4 R_4 s + C_L R_4 s + 2 C_L R_L s + 2)}$$

10.630 INVALID-ORDER-630 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2 C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_L R_4 s^3 + 2 C_4 L_4 s^2 + 2 C_4 R_4 s + 2 C_L L_L s^2 + C_L R_4 s + 2)}$$

10.631 INVALID-ORDER-631 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_L R_4 g_m s^2 (C_4 L_4 s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_L R_4 s^2 + C_L L_L R_4 s^2 + 2 L_L s + R_4)}$$

10.632 INVALID-ORDER-632 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_4 L_4 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (2 C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_4 R_L s^3 + 2 C_4 C_L L_L R_4 s^3 + 2 C_4 C_L R_4 R_L s^2 + 2 C_4 L_4 s^2 + 2 C_4 R_4 s + 2 C_L L_L s^2 + C_L R_4 s + 2 C_L R_L s + 2)}$$

10.633 INVALID-ORDER-633 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_1 L_L R_4 R_L g_m s^2 (C_4 L_4 s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2 C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + 2 C_4 L_L R_4 R_L s^2 + C_L L_L R_4 R_L s^2 + L_L R_4 s + 2 L_L R_L s + R_4 R_L)}$$

10.634 INVALID-ORDER-634 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_1 R_4 g_m s (C_4 L_4 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + 2C_4 C_L L_L R_4 R_L s^3 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 L_L R_4 s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + 2C_L L_L R_L s^2)}$$

10.635 INVALID-ORDER-635 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_1 R_4 R_L g_m s (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 s^2 + L_1 g_m s + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + 2C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + 2C_L L_L R_L s^2)}$$

10.636 INVALID-ORDER-636 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_L R_4 s + 2) (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m)}$$

10.637 INVALID-ORDER-637 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_4 R_L g_m (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_L R_4 R_L s + R_4 + 2R_L) (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m)}$$

10.638 INVALID-ORDER-638 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_L R_L s + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_L R_4 s + 2C_L R_L s + 2) (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m)}$$

10.639 INVALID-ORDER-639 $Z(s) = \left(\frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_4g_m(C_LL_Ls^2 + 1)(C_1L_1s^2 + C_1R_1s + 1)}{(2C_LL_Ls^2 + C_LR_4s + 2)(C_1L_1g_ms^2 + C_1R_1g_ms + C_1s + g_m)}$$

10.640 INVALID-ORDER-640 $Z(s) = \left(\frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1} \right)$

$$H(s) = \frac{L_LR_4g_ms(C_1L_1s^2 + C_1R_1s + 1)}{(C_LL_LR_4s^2 + 2L_Ls + R_4)(C_1L_1g_ms^2 + C_1R_1g_ms + C_1s + g_m)}$$

10.641 INVALID-ORDER-641 $Z(s) = \left(\frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_4g_m(C_1L_1s^2 + C_1R_1s + 1)(C_LL_Ls^2 + C_LR_Ls + 1)}{(2C_LL_Ls^2 + C_LR_4s + 2C_LR_Ls + 2)(C_1L_1g_ms^2 + C_1R_1g_ms + C_1s + g_m)}$$

10.642 INVALID-ORDER-642 $Z(s) = \left(\frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_LR_4R_Lg_ms(C_1L_1s^2 + C_1R_1s + 1)}{(C_1L_1g_ms^2 + C_1R_1g_ms + C_1s + g_m)(C_LL_LR_4R_Ls^2 + L_LR_4s + 2L_LR_Ls + R_4R_L)}$$

10.643 INVALID-ORDER-643 $Z(s) = \left(\frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1} + R_L \right)$

$$H(s) = \frac{R_4g_m(C_1L_1s^2 + C_1R_1s + 1)(C_LL_LR_Ls^2 + L_Ls + R_L)}{(C_1L_1g_ms^2 + C_1R_1g_ms + C_1s + g_m)(C_LL_LR_4s^2 + 2C_LL_LR_Ls^2 + 2L_Ls + R_4 + 2R_L)}$$

$$10.644 \quad \text{INVALID-ORDER-644} \quad Z(s) = \left(\frac{1}{C_1 s}, \quad L_2 s + R_2 + \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_4 R_L g_m (C_L L_L s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2 R_L)}$$

$$10.645 \quad \text{INVALID-ORDER-645} \quad Z(s) = \left(\frac{1}{C_1 s}, \quad \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \quad \infty, \quad \infty, \quad \infty, \quad R_L \right)$$

$$H(s) = \frac{R_L g_m (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(2 C_4 R_L s + 1) (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m)}$$

$$10.646 \quad \text{INVALID-ORDER-646} \quad Z(s) = \left(\frac{1}{C_1 s}, \quad \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \quad \infty, \quad \infty, \quad \infty, \quad \frac{1}{C_L s} \right)$$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + C_1 R_1 s + 1)}{s (2 C_4 + C_L) (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m)}$$

$$10.647 \quad \text{INVALID-ORDER-647} \quad Z(s) = \left(\frac{1}{C_1 s}, \quad \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \quad \infty, \quad \infty, \quad \infty, \quad \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_L g_m (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(2 C_4 R_L s + C_L R_L s + 1) (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m)}$$

$$10.648 \quad \text{INVALID-ORDER-648} \quad Z(s) = \left(\frac{1}{C_1 s}, \quad \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \quad \infty, \quad \infty, \quad \infty, \quad R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{g_m (C_L R_L s + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{s (2 C_4 C_L R_L s + 2 C_4 + C_L) (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m)}$$

10.649 INVALID-ORDER-649 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_L L_L s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{s (2C_4 C_L L_L s^2 + 2C_4 + C_L) (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m)}$$

10.650 INVALID-ORDER-650 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(2C_4 L_L s^2 + C_L L_L s^2 + 1) (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m)}$$

10.651 INVALID-ORDER-651 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_L s^2 + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.652 INVALID-ORDER-652 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.653 INVALID-ORDER-653 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_L R_L s^3 + 2C_4 L_L s^2 + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

10.654 INVALID-ORDER-654 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_L g_m (C_L L_L s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_L R_L s^3 + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.655 INVALID-ORDER-655 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_4 R_L g_m (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(2C_4 R_4 R_L s + R_4 + 2R_L) (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m)}$$

10.656 INVALID-ORDER-656 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(2C_4 R_4 s + C_L R_4 s + 2) (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m)}$$

10.657 INVALID-ORDER-657 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_4 R_L g_m (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 R_4 R_L s + C_L R_4 R_L s + R_4 + 2R_L)}$$

10.658 INVALID-ORDER-658 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_L R_L s + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + C_L R_4 s + 2C_L R_L s + 2)}$$

$$10.659 \quad \text{INVALID-ORDER-659} \quad Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_4 g_m (C_L L_L s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_L R_4 s^3 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

$$10.660 \quad \text{INVALID-ORDER-660} \quad Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L R_4 g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 L_L R_4 s^2 + C_L L_L R_4 s^2 + 2L_L s + R_4)}$$

$$10.661 \quad \text{INVALID-ORDER-661} \quad Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_4 g_m (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_L R_4 s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

$$10.662 \quad \text{INVALID-ORDER-662} \quad Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_L R_4 R_L g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 L_L R_4 R_L s^2 + C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

$$10.663 \quad \text{INVALID-ORDER-663} \quad Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{R_4 g_m (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_L R_4 R_L s^3 + 2C_4 L_L R_4 s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + 2L_L s + R_4 + 2R_L)}$$

10.664 INVALID-ORDER-664 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_4 R_L g_m (C_L L_L s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_L R_4 R_L s^3 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2R_L)}$$

10.665 INVALID-ORDER-665 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_L g_m (C_4 R_4 s + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_4 R_4 s + 2C_4 R_L s + 1) (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m)}$$

10.666 INVALID-ORDER-666 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_4 R_4 s + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{s (C_4 C_L R_4 s + 2C_4 + C_L) (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m)}$$

10.667 INVALID-ORDER-667 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L g_m (C_4 R_4 s + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L R_4 R_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L R_L s + 1)}$$

10.668 INVALID-ORDER-668 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_4 R_4 s + 1) (C_L R_L s + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{s (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.669 INVALID-ORDER-669 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_4 R_4 s + 1) (C_L L_L s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{s (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

10.670 INVALID-ORDER-670 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L g_m s (C_4 R_4 s + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_L R_4 s^3 + 2C_4 L_L s^2 + C_4 R_4 s + C_L L_L s^2 + 1)}$$

10.671 INVALID-ORDER-671 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_4 R_4 s + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.672 INVALID-ORDER-672 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L g_m s (C_4 R_4 s + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_L R_4 R_L s^3 + C_4 L_L R_4 s^2 + 2C_4 L_L R_L s^2 + C_4 R_4 R_L s + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.673 INVALID-ORDER-673 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{g_m (C_4 R_4 s + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + 2C_4 L_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

10.674 INVALID-ORDER-674 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_L g_m (C_4 R_4 s + 1) (C_L L_L s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.675 INVALID-ORDER-675 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_L g_m (C_4 L_4 s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_4 L_4 s^2 + 2C_4 R_L s + 1) (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m)}$$

10.676 INVALID-ORDER-676 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_4 L_4 s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{s (C_4 C_L L_4 s^2 + 2C_4 + C_L) (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m)}$$

10.677 INVALID-ORDER-677 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L g_m (C_4 L_4 s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 R_L s^3 + C_4 L_4 s^2 + 2C_4 R_L s + C_L R_L s + 1)}$$

10.678 INVALID-ORDER-678 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_4 L_4 s^2 + 1) (C_L R_L s + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{s (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 s^2 + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.679 INVALID-ORDER-679 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{s (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + 2 C_4 + C_L)}$$

10.680 INVALID-ORDER-680 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L g_m s (C_4 L_4 s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + C_L L_L s^2 + 1)}$$

10.681 INVALID-ORDER-681 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_4 L_4 s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

10.682 INVALID-ORDER-682 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L g_m s (C_4 L_4 s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_L s^4 + C_4 L_4 L_L s^3 + C_4 L_4 R_L s^2 + 2 C_4 L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.683 INVALID-ORDER-683 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{g_m (C_4 L_4 s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + 2 C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + 2 C_4 R_L s + C_L L_L s^2 + 1)}$$

$$10.684 \quad \text{INVALID-ORDER-684} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_L g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_L s^3 + 2C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

$$10.685 \quad \text{INVALID-ORDER-685} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{L_4 R_L g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(2C_4 L_4 R_L s^2 + L_4 s + 2R_L) (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m)}$$

$$10.686 \quad \text{INVALID-ORDER-686} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(2C_4 L_4 s^2 + C_L L_4 s^2 + 2) (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m)}$$

$$10.687 \quad \text{INVALID-ORDER-687} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_4 R_L g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 L_4 R_L s^2 + C_L L_4 R_L s^2 + L_4 s + 2R_L)}$$

$$10.688 \quad \text{INVALID-ORDER-688} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 g_m s (C_L R_L s + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 R_L s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L R_L s + 2)}$$

10.689 INVALID-ORDER-689 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 g_m s (C_L L_L s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 L_L s^4 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + 2)}$$

10.690 INVALID-ORDER-690 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_4 L_L g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 L_4 L_L s^2 + C_L L_4 L_L s^2 + L_4 + 2L_L)}$$

10.691 INVALID-ORDER-691 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 L_L s^4 + 2C_4 C_L L_4 R_L s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + 2C_L R_L s + 2)}$$

10.692 INVALID-ORDER-692 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_4 L_L R_L g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 L_4 L_L R_L s^2 + C_L L_4 L_L R_L s^2 + L_4 L_L s + L_4 R_L + 2L_L R_L)}$$

10.693 INVALID-ORDER-693 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_4 g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 L_L R_L s^4 + 2C_4 L_4 L_L s^3 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + 2C_L L_L R_L s^2 + L_4 s + 2L_L s + 2R_L)}$$

10.694 INVALID-ORDER-694 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_4 R_L g_m s (C_L L_L s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 L_L R_L s^4 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_4 R_L s^2 + 2C_L L_L R_L s^2 + L_4 s + 2R_L)}$$

10.695 INVALID-ORDER-695 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_L g_m (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + 1) (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m)}$$

10.696 INVALID-ORDER-696 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

10.697 INVALID-ORDER-697 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L g_m (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + C_L R_L s + 1)}$$

10.698 INVALID-ORDER-698 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_L R_L s + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 s^2 + C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.699 INVALID-ORDER-699 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_L L_L s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 s^2 + 2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

10.700 INVALID-ORDER-700 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + C_4 L_4 s^2 + 2C_4 L_L s^2 + C_4 R_4 s + C_L L_L s^2 + 1)}$$

10.701 INVALID-ORDER-701 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 s^2 + 2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.702 INVALID-ORDER-702 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 L_L s^3 + C_4 L_4 R_L s^2 + C_4 L_L R_4 s^2 + 2C_4 L_L R_L s^2 + C_4 R_4 R_L s + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.703 INVALID-ORDER-703 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2C_4 L_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

$$10.704 \quad \text{INVALID-ORDER-704} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_L g_m (C_L L_L s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_L s^3 + C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s)}$$

$$10.705 \quad \text{INVALID-ORDER-705} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{L_4 R_4 R_L g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 L_4 R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

$$10.706 \quad \text{INVALID-ORDER-706} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 R_4 g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2L_4 s + 2R_4)}$$

$$10.707 \quad \text{INVALID-ORDER-707} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_4 R_4 R_L g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 L_4 R_4 R_L s^2 + C_L L_4 R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

$$10.708 \quad \text{INVALID-ORDER-708} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 R_4 g_m s (C_L R_L s + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L R_4 R_L s + 2L_4 s + 2R_4)}$$

10.709 INVALID-ORDER-709 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_4 g_m s (C_L L_L s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_L R_4 s^2 + 2L_4 s + 2R_4)}$$

10.710 INVALID-ORDER-710 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_4 L_L R_4 g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 L_4 L_L R_4 s^2 + C_L L_4 L_L R_4 s^2 + 2L_4 L_L s + L_4 R_4 + 2L_L R_4)}$$

10.711 INVALID-ORDER-711 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_4 g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L L_L R_4 s^2 + 2C_L R_4 R_L s + 2L_4 s)}$$

10.712 INVALID-ORDER-712 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_4 L_L R_4 R_L g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 L_4 L_L R_4 R_L s^2 + C_L L_4 L_L R_4 R_L s^2 + L_4 L_L R_4 s + 2L_4 L_L R_L s + L_4 R_4 R_L + 2L_L R_4 R_L)}$$

10.713 INVALID-ORDER-713 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_4 R_4 g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + 2C_L L_L R_4 R_L s^2 + 2L_4 L_L s^2 + L_4 R_4 s + 2R_L)}$$

$$10.714 \quad \text{INVALID-ORDER-714} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_4 R_4 R_L g_m s (C_L L_L s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + C_L L_4 R_4 R_L s^2 + 2C_L L_L R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_L)}$$

$$10.715 \quad \text{INVALID-ORDER-715} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{R_L g_m (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + L_4 s + R_4 + 2R_L)}$$

$$10.716 \quad \text{INVALID-ORDER-716} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 R_4 s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2)}$$

$$10.717 \quad \text{INVALID-ORDER-717} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_L g_m (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 R_L s^2 + C_L R_4 R_L s + L_4 s + R_4 + 2R_L)}$$

$$10.718 \quad \text{INVALID-ORDER-718} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{g_m (C_L R_L s + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

10.719 INVALID-ORDER-719 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_L L_L s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

10.720 INVALID-ORDER-720 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + L_4 s + 2L_L s + R_4)}$$

10.721 INVALID-ORDER-721 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_L L_L s^2 + C_L R_L s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

10.722 INVALID-ORDER-722 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L g_m s (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_L s^3 + C_L L_L R_4 R_L s^2 + L_4 L_L s^2 + L_4 R_L s + L_L R_4 s)}$$

10.723 INVALID-ORDER-723 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{g_m (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + L_4 s + 2L_L s + R_L)}$$

$$10.724 \quad \text{INVALID-ORDER-724} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_L g_m (C_L L_L s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_4 R_L s^2 + C_L L_L R_4 s^2 + 2C_L L_L R_4 s + 2C_L L_L R_4)}.$$

$$10.725 \quad \text{INVALID-ORDER-725} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{R_4 R_L g_m (C_4 L_4 s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 R_4 R_L s + R_4 + 2R_L)}$$

$$10.726 \quad \text{INVALID-ORDER-726} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_4 g_m (C_4 L_4 s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 R_4 s^3 + 2C_4 L_4 s^2 + 2C_4 R_4 s + C_L R_4 s + 2)}$$

$$10.727 \quad \text{INVALID-ORDER-727} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_4 R_L g_m (C_4 L_4 s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 R_4 R_L s + C_L R_4 R_L s + R_4 + 2R_L)}$$

$$10.728 \quad \text{INVALID-ORDER-728} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_4 g_m (C_4 L_4 s^2 + 1) (C_L R_L s + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 L_4 s^2 + 2C_4 R_4 s + C_L R_4 s + 2C_L R_L s + 2)}$$

10.729 INVALID-ORDER-729 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_L R_4 s^3 + 2C_4 L_4 s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

10.730 INVALID-ORDER-730 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_4 g_m s (C_4 L_4 s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_L R_4 s^2 + C_L L_L R_4 s^2 + 2L_L s + R_4)}$$

10.731 INVALID-ORDER-731 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_4 L_4 s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (2C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_4 s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 L_4 s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + R_4)}$$

10.732 INVALID-ORDER-732 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_4 R_L g_m s (C_4 L_4 s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + 2C_4 L_L R_4 R_L s^2 + C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

10.733 INVALID-ORDER-733 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_4 g_m (C_4 L_4 s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + 2C_4 C_L L_L R_4 R_L s^3 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 L_L R_4 s^2 + 2C_4 R_4 R_L s + C_L L_L R_L s^2 + L_L s + R_L)}$$

$$10.734 \quad \text{INVALID-ORDER-734} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_4 R_L g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1) (C_1 L_1 s^2 + C_1 R_1 s + 1)}{(C_1 L_1 g_m s^2 + C_1 R_1 g_m s + C_1 s + g_m) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + 2 C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + 2 C_4 R_4 R_L s + C_L L_L R_4 s^2)}$$

$$10.735 \quad \text{INVALID-ORDER-735} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 R_1 R_4 g_m s}{(C_L R_4 s + 2) (C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

$$10.736 \quad \text{INVALID-ORDER-736} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_1 R_1 R_4 R_L g_m s}{(C_L R_4 R_L s + R_4 + 2 R_L) (C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

$$10.737 \quad \text{INVALID-ORDER-737} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 R_1 R_4 g_m s (C_L R_L s + 1)}{(C_L R_4 s + 2 C_L R_L s + 2) (C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

$$10.738 \quad \text{INVALID-ORDER-738} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 R_1 R_4 g_m s (C_L L_L s^2 + 1)}{(2 C_L L_L s^2 + C_L R_4 s + 2) (C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

$$10.739 \quad \text{INVALID-ORDER-739} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_1 L_L R_1 R_4 g_m s^2}{(C_L L_L R_4 s^2 + 2 L_L s + R_4) (C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

$$10.740 \quad \text{INVALID-ORDER-740} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 R_1 R_4 g_m s (C_L L_L s^2 + C_L R_L s + 1)}{(2 C_L L_L s^2 + C_L R_4 s + 2 C_L R_L s + 2) (C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

$$10.741 \quad \text{INVALID-ORDER-741} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_1 L_L R_1 R_4 R_L g_m s^2}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_L L_L R_4 R_L s^2 + L_L R_4 s + 2 L_L R_L s + R_4 R_L)}$$

$$10.742 \quad \text{INVALID-ORDER-742} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_1 R_1 R_4 g_m s (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + 2 L_L s + R_4 + 2 R_L)}$$

$$10.743 \quad \text{INVALID-ORDER-743} \quad Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_1 R_1 R_4 R_L g_m s (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2 R_L)}$$

10.744 INVALID-ORDER-744 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_1 R_1 R_L g_m s}{(2C_4 R_L s + 1)(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

10.745 INVALID-ORDER-745 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_1 R_1 R_L g_m s}{(2C_4 R_L s + C_L R_L s + 1)(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

10.746 INVALID-ORDER-746 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 g_m (C_L R_L s + 1)}{(2C_4 C_L R_L s + 2C_4 + C_L)(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

10.747 INVALID-ORDER-747 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 g_m (C_L L_L s^2 + 1)}{(2C_4 C_L L_L s^2 + 2C_4 + C_L)(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

10.748 INVALID-ORDER-748 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_L R_1 g_m s^2}{(2C_4 L_L s^2 + C_L L_L s^2 + 1)(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

10.749 INVALID-ORDER-749 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 g_m (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)(2C_4 C_L L_L s^2 + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

$$10.750 \quad \text{INVALID-ORDER-750} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \quad R_2, \quad \infty, \quad \infty, \quad \infty, \quad \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_1 L_L R_1 R_L g_m s^2}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L)}$$

$$10.751 \quad \text{INVALID-ORDER-751} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \quad R_2, \quad \infty, \quad \infty, \quad \infty, \quad \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_1 R_1 g_m s (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 C_L L_L R_L s^3 + 2C_4 L_L s^2 + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

$$10.752 \quad \text{INVALID-ORDER-752} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \quad R_2, \quad \infty, \quad \infty, \quad \infty, \quad \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_1 R_1 R_L g_m s (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 C_L L_L R_L s^3 + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

$$10.753 \quad \text{INVALID-ORDER-753} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \quad \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad R_L \right)$$

$$H(s) = \frac{L_1 R_1 R_4 R_L g_m s}{(2C_4 R_4 R_L s + R_4 + 2R_L) (C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

$$10.754 \quad \text{INVALID-ORDER-754} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \quad \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 R_1 R_4 g_m s}{(2C_4 R_4 s + C_L R_4 s + 2) (C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

10.755 INVALID-ORDER-755 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_1 R_1 R_4 R_L g_m s}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 R_4 R_L s + C_L R_4 R_L s + R_4 + 2R_L)}$$

10.756 INVALID-ORDER-756 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 R_4 g_m s (C_L R_L s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + C_L R_4 s + 2C_L R_L s + 2)}$$

10.757 INVALID-ORDER-757 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 R_4 g_m s (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 C_L L_L R_4 s^3 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

10.758 INVALID-ORDER-758 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_L R_1 R_4 g_m s^2}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 L_L R_4 s^2 + C_L L_L R_4 s^2 + 2L_L s + R_4)}$$

10.759 INVALID-ORDER-759 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 R_4 g_m s (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 C_L L_L R_4 s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

10.760 INVALID-ORDER-760 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_1 L_L R_1 R_4 R_L g_m s^2}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 L_L R_4 R_L s^2 + C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

10.761 INVALID-ORDER-761 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_1 R_1 R_4 g_m s (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 C_L L_L R_4 R_L s^3 + 2C_4 L_L R_4 s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + 2L_L s + R_4 + 2R_L)}$$

10.762 INVALID-ORDER-762 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_1 R_1 R_4 R_L g_m s (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 C_L L_L R_4 R_L s^3 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2R_L)}$$

10.763 INVALID-ORDER-763 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_1 R_1 R_L g_m s (C_4 R_4 s + 1)}{(C_4 R_4 s + 2C_4 R_L s + 1) (C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

10.764 INVALID-ORDER-764 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 g_m (C_4 R_4 s + 1)}{(C_4 C_L R_4 s + 2C_4 + C_L) (C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

10.765 INVALID-ORDER-765 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_1 R_1 R_L g_m s (C_4 R_4 s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L R_4 R_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L R_L s + 1)}$$

10.766 INVALID-ORDER-766 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 g_m (C_4 R_4 s + 1) (C_L R_L s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.767 INVALID-ORDER-767 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 g_m (C_4 R_4 s + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

10.768 INVALID-ORDER-768 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_L R_1 g_m s^2 (C_4 R_4 s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_L R_4 s^3 + 2C_4 L_L s^2 + C_4 R_4 s + C_L L_L s^2 + 1)}$$

10.769 INVALID-ORDER-769 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 g_m (C_4 R_4 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.770 INVALID-ORDER-770 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_1 L_L R_1 R_L g_m s^2 (C_4 R_4 s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_L R_4 R_L s^3 + C_4 L_L R_4 s^2 + 2C_4 L_L R_L s^2 + C_4 R_4 R_L s + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.771 INVALID-ORDER-771 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_1 R_1 g_m s (C_4 R_4 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + 2C_4 L_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

10.772 INVALID-ORDER-772 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_1 R_1 R_L g_m s (C_4 R_4 s + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_L R_4 s^3 + 2 C_4 C_L L_L R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 R_4 s + 2 C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.773 INVALID-ORDER-773 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_1 R_1 R_L g_m s (C_4 L_4 s^2 + 1)}{(C_4 L_4 s^2 + 2 C_4 R_L s + 1) (C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

10.774 INVALID-ORDER-774 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 g_m (C_4 L_4 s^2 + 1)}{(C_4 C_L L_4 s^2 + 2 C_4 + C_L) (C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

10.775 INVALID-ORDER-775 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_1 R_1 R_L g_m s (C_4 L_4 s^2 + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 R_L s^3 + C_4 L_4 s^2 + 2 C_4 R_L s + C_L R_L s + 1)}$$

10.776 INVALID-ORDER-776 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 g_m (C_4 L_4 s^2 + 1) (C_L R_L s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 s^2 + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

10.777 INVALID-ORDER-777 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + 2 C_4 + C_L)}$$

10.778 INVALID-ORDER-778 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_L R_1 g_m s^2 (C_4 L_4 s^2 + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 L_L s^4 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + C_L L_L s^2 + 1)}$$

10.779 INVALID-ORDER-779 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

10.780 INVALID-ORDER-780 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_1 L_L R_1 R_L g_m s^2 (C_4 L_4 s^2 + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 L_L R_L s^4 + C_4 L_4 L_L s^3 + C_4 L_4 R_L s^2 + 2 C_4 L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.781 INVALID-ORDER-781 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_1 R_1 g_m s (C_4 L_4 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 L_L s^4 + 2 C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + 2 C_4 R_L s + C_L L_L s^2 + 1)}$$

$$10.782 \quad \text{INVALID-ORDER-782} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \quad R_2 + \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_1 R_1 R_L g_m s (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_L s^3 + 2 C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2 C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

$$10.783 \quad \text{INVALID-ORDER-783} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \quad L_2 s + \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad R_L \right)$$

$$H(s) = \frac{L_1 L_4 R_1 R_L g_m s^2}{(2 C_4 L_4 R_L s^2 + L_4 s + 2 R_L) (C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

$$10.784 \quad \text{INVALID-ORDER-784} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \quad L_2 s + \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 L_4 R_1 g_m s^2}{(2 C_4 L_4 s^2 + C_L L_4 s^2 + 2) (C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

$$10.785 \quad \text{INVALID-ORDER-785} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \quad L_2 s + \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_1 L_4 R_1 R_L g_m s^2}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2 C_4 L_4 R_L s^2 + C_L L_4 R_L s^2 + L_4 s + 2 R_L)}$$

$$10.786 \quad \text{INVALID-ORDER-786} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \quad L_2 s + \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 L_4 R_1 g_m s^2 (C_L R_L s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2 C_4 C_L L_4 R_L s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L R_L s + 2)}$$

$$10.787 \quad \text{INVALID-ORDER-787} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \quad L_2 s + \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 L_4 R_1 g_m s^2 (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2 C_4 C_L L_4 L_L s^4 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L L_L s^2 + 2)}$$

10.788 INVALID-ORDER-788 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_4 L_L R_1 g_m s^2}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 L_4 L_L s^2 + C_L L_4 L_L s^2 + L_4 + 2L_L)}$$

10.789 INVALID-ORDER-789 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 L_4 R_1 g_m s^2 (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 C_L L_4 L_L s^4 + 2C_4 C_L L_4 R_L s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + 2C_L R_L s + 2)}$$

10.790 INVALID-ORDER-790 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_1 L_4 L_L R_1 R_L g_m s^2}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 L_4 L_L R_L s^2 + C_L L_4 L_L R_L s^2 + L_4 L_L s + L_4 R_L + 2L_L R_L)}$$

10.791 INVALID-ORDER-791 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_1 L_4 R_1 g_m s^2 (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 C_L L_4 L_L R_L s^4 + 2C_4 L_4 L_L s^3 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + 2C_L L_L R_L s^2 + L_4 s + 2L_L s + 2R_L)}$$

10.792 INVALID-ORDER-792 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_1 L_4 R_1 R_L g_m s^2 (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 C_L L_4 L_L R_L s^4 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_4 R_L s^2 + 2C_L L_L R_L s^2 + L_4 s + 2R_L)}$$

10.793 INVALID-ORDER-793 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_1 R_1 R_L g_m s (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + 1)(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)}$$

10.794 INVALID-ORDER-794 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 g_m (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)(C_4 C_L L_4 s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

10.795 INVALID-ORDER-795 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_1 R_1 R_L g_m s (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)(C_4 C_L L_4 R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + C_L R_L s + 1)}$$

10.796 INVALID-ORDER-796 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 g_m (C_L R_L s + 1)(C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)(C_4 C_L L_4 s^2 + C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.797 INVALID-ORDER-797 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 g_m (C_L L_L s^2 + 1)(C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)(C_4 C_L L_4 s^2 + 2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 + C_L)}$$

10.798 INVALID-ORDER-798 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_L R_1 g_m s^2 (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1)(C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + C_4 L_4 s^2 + 2C_4 L_L s^2 + C_4 R_4 s + C_L L_L s^2 + 1)}$$

10.799 INVALID-ORDER-799 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 g_m (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 s^2 + 2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L)}$$

10.800 INVALID-ORDER-800 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_1 L_L R_1 R_L g_m s^2 (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 L_L s^3 + C_4 L_4 R_L s^2 + C_4 L_L R_4 s^2 + 2C_4 L_L R_L s^2 + C_4 R_4 R_L s + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.801 INVALID-ORDER-801 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_1 R_1 g_m s (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2C_4 L_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

10.802 INVALID-ORDER-802 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_1 R_1 R_L g_m s (C_L L_L s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_L s^3 + C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s)}$$

10.803 INVALID-ORDER-803 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_1 L_4 R_1 R_4 R_L g_m s^2}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 L_4 R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

$$10.804 \quad \text{INVALID-ORDER-804} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 L_4 R_1 R_4 g_m s^2}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2L_4 s + 2R_4)}$$

$$10.805 \quad \text{INVALID-ORDER-805} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_1 L_4 R_1 R_4 R_L g_m s^2}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 L_4 R_4 R_L s^2 + C_L L_4 R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_4 R_L)}$$

$$10.806 \quad \text{INVALID-ORDER-806} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 L_4 R_1 R_4 g_m s^2 (C_L R_L s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L R_4 R_L s + 2L_4 s + 2R_4)}$$

$$10.807 \quad \text{INVALID-ORDER-807} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 L_4 R_1 R_4 g_m s^2 (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_L R_4 s^2 + 2L_4 s + 2R_4)}$$

$$10.808 \quad \text{INVALID-ORDER-808} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_1 L_4 L_L R_1 R_4 g_m s^2}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 L_4 L_L R_4 s^2 + C_L L_4 L_L R_4 s^2 + 2L_4 L_L s + L_4 R_4 + 2L_L R_4)}$$

$$10.809 \quad \text{INVALID-ORDER-809} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 L_4 R_1 R_4 g_m s^2 (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L L_L R_4 s^2 + 2C_L R_4 R_L s + 2L_4 s + 2R_4)}$$

$$10.810 \quad \text{INVALID-ORDER-810} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_1 L_4 L_L R_1 R_4 R_L g_m s^2}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 L_4 L_L R_4 R_L s^2 + C_L L_4 L_L R_4 R_L s^2 + L_4 L_L R_4 s + 2L_4 L_L R_L s + L_4 R_4 R_L + 2L_L R_4 R_L)}$$

$$10.811 \quad \text{INVALID-ORDER-811} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_1 L_4 R_1 R_4 g_m s^2 (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + 2C_L L_L R_4 R_L s^2 + 2L_4 L_L s^2 + L_4 R_4 s + 2R_L)}$$

$$10.812 \quad \text{INVALID-ORDER-812} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_1 L_4 R_1 R_4 R_L g_m s^2 (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + C_L L_4 R_4 R_L s^2 + 2C_L L_L R_4 R_L s^2 + L_4 R_4 s + 2L_4 R_L s + 2R_L)}$$

$$10.813 \quad \text{INVALID-ORDER-813} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{L_1 R_1 R_L g_m s (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + L_4 s + R_4 + 2R_L)}$$

$$10.814 \quad \text{INVALID-ORDER-814} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 (L_2 s + \frac{1}{C_2 s})}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 R_1 g_m s (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 R_4 s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2)}$$

10.815 INVALID-ORDER-815 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_1 R_1 R_L g_m s (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + C_L L_4 R_L s^2 + C_L R_4 R_L s + L_4 s + R_4 + 2 R_L)}$$

10.816 INVALID-ORDER-816 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 g_m s (C_L R_L s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_4 R_L s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2 C_L R_L s + 2)}$$

10.817 INVALID-ORDER-817 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 g_m s (C_L L_L s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2 C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L L_L s^2 + C_L R_4 s + 2)}$$

10.818 INVALID-ORDER-818 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_1 L_L R_1 g_m s^2 (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + L_4 s + 2 L_L s + R_4)}$$

10.819 INVALID-ORDER-819 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 R_1 g_m s (C_L L_L s^2 + C_L R_L s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (2 C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_4 R_L s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L L_L s^2 + C_L R_4 s + 2 C_L R_L s + 2)}$$

$$10.820 \quad \text{INVALID-ORDER-820} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_1 L_L R_1 R_L g_m s^2 (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_L s^3 + C_L L_L R_4 R_L s^2 + L_4 L_L s^2 + L_4 R_L s + L_L R_4 s)}$$

$$10.821 \quad \text{INVALID-ORDER-821} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_1 R_1 g_m s (C_4 L_4 R_4 s^2 + L_4 s + R_4) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + L_4 s + 2L_L s)}$$

$$10.822 \quad \text{INVALID-ORDER-822} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_1 R_1 R_L g_m s (C_L L_L s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_4 R_L s^2 + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + L_4 s + 2L_L s)}$$

$$10.823 \quad \text{INVALID-ORDER-823} \quad Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{L_1 R_1 R_4 R_L g_m s (C_4 L_4 s^2 + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 R_4 R_L s + R_4 + 2R_L)}$$

$$10.824 \quad \text{INVALID-ORDER-824} \quad Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_1 R_1 R_4 g_m s (C_4 L_4 s^2 + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 R_4 s^3 + 2C_4 L_4 s^2 + 2C_4 R_4 s + C_L R_4 s + 2)}$$

10.825 INVALID-ORDER-825 $Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{L_1R_1R_4R_Lg_ms(C_4L_4s^2+1)}{(C_1L_1R_1s^2+L_1R_1g_ms+L_1s+R_1)(C_4C_LL_4R_4R_Ls^3+C_4L_4R_4s^2+2C_4L_4R_Ls^2+2C_4R_4R_Ls+C_LR_4R_Ls+R_4+2R_L)}$$

10.826 INVALID-ORDER-826 $Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_1R_1R_4g_ms(C_4L_4s^2+1)(C_LR_Ls+1)}{(C_1L_1R_1s^2+L_1R_1g_ms+L_1s+R_1)(C_4C_LL_4R_4s^3+2C_4C_LL_4R_Ls^3+2C_4C_LR_4R_Ls^2+2C_4L_4s^2+2C_4R_4s+C_LR_4s+2C_LR_Ls+2)}$$

10.827 INVALID-ORDER-827 $Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_1R_1R_4g_ms(C_4L_4s^2+1)(C_LL_Ls^2+1)}{(C_1L_1R_1s^2+L_1R_1g_ms+L_1s+R_1)(2C_4C_LL_4L_Ls^4+C_4C_LL_4R_4s^3+2C_4C_LL_LR_4s^3+2C_4L_4s^2+2C_4R_4s+2C_LL_Ls^2+C_LR_4s+2)}$$

10.828 INVALID-ORDER-828 $Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} \right)$

$$H(s) = \frac{L_1L_LR_1R_4g_ms^2(C_4L_4s^2+1)}{(C_1L_1R_1s^2+L_1R_1g_ms+L_1s+R_1)(C_4C_LL_4L_LR_4s^4+2C_4L_4L_Ls^3+C_4L_4R_4s^2+2C_4L_LR_4s^2+C_LL_LR_4s^2+2L_Ls+R_4)}$$

10.829 INVALID-ORDER-829 $Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_1R_1R_4g_ms(C_4L_4s^2+1)(C_LL_Ls^2+C_LR_Ls+1)}{(C_1L_1R_1s^2+L_1R_1g_ms+L_1s+R_1)(2C_4C_LL_4L_Ls^4+C_4C_LL_4R_4s^3+2C_4C_LL_4R_Ls^3+2C_4C_LL_LR_4s^3+2C_4C_LR_4R_Ls^2+2C_4L_4s^2+2C_4R_4s+2C_LL_Ls^2+C_LR_4s+2C_LR_Ls+2)}$$

$$10.830 \quad \text{INVALID-ORDER-830} \quad Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \quad R_2, \quad \infty, \quad \infty, \quad \infty, \quad \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_1 L_L R_1 R_4 R_L g_m s^2 (C_4 L_4 s^2 + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + 2C_4 L_L R_4 R_L s^2 + C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

$$10.831 \quad \text{INVALID-ORDER-831} \quad Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \quad R_2, \quad \infty, \quad \infty, \quad \infty, \quad \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_1 R_1 R_4 g_m s (C_4 L_4 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + 2C_4 C_L L_L R_4 R_L s^3 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 L_L R_4 s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2)}$$

$$10.832 \quad \text{INVALID-ORDER-832} \quad Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \quad R_2, \quad \infty, \quad \infty, \quad \infty, \quad \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_1 R_1 R_4 R_L g_m s (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 s^2 + L_1 R_1 g_m s + L_1 s + R_1) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + 2C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2)}$$

$$10.833 \quad \text{INVALID-ORDER-833} \quad Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \quad \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_4 g_m (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_L R_4 s + 2) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

$$10.834 \quad \text{INVALID-ORDER-834} \quad Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \quad \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_4 R_L g_m (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_L R_4 R_L s + R_4 + 2R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

10.835 INVALID-ORDER-835 $Z(s) = \left(L_1s + \frac{1}{C_1s}, \frac{1}{C_2s}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_4g_m (C_LR_Ls + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(C_LR_4s + 2C_LR_Ls + 2) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.836 INVALID-ORDER-836 $Z(s) = \left(L_1s + \frac{1}{C_1s}, \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_4g_m (C_LL_Ls^2 + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(2C_LL_Ls^2 + C_LR_4s + 2) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.837 INVALID-ORDER-837 $Z(s) = \left(L_1s + \frac{1}{C_1s}, \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1} \right)$

$$H(s) = \frac{L_LR_4g_ms (C_1L_1R_1s^2 + L_1s + R_1)}{(C_LL_LR_4s^2 + 2L_Ls + R_4) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.838 INVALID-ORDER-838 $Z(s) = \left(L_1s + \frac{1}{C_1s}, \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_4g_m (C_LL_Ls^2 + C_LR_Ls + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(2C_LL_Ls^2 + C_LR_4s + 2C_LR_Ls + 2) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.839 INVALID-ORDER-839 $Z(s) = \left(L_1s + \frac{1}{C_1s}, \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_LR_4R_Lg_ms (C_1L_1R_1s^2 + L_1s + R_1)}{(C_LL_LR_4R_Ls^2 + L_LR_4s + 2L_LR_Ls + R_4R_L) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.840 INVALID-ORDER-840 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_4 g_m (C_1 L_1 R_1 s^2 + L_1 s + R_1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + 2 L_L s + R_4 + 2 R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

10.841 INVALID-ORDER-841 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_4 R_L g_m (C_L L_L s^2 + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2 R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

10.842 INVALID-ORDER-842 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_L g_m (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(2 C_4 R_L s + 1) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

10.843 INVALID-ORDER-843 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{s (2 C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

10.844 INVALID-ORDER-844 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L g_m (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(2 C_4 R_L s + C_L R_L s + 1) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

10.845 INVALID-ORDER-845 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_L R_L s + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{s (2C_4 C_L R_L s + 2C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

10.846 INVALID-ORDER-846 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_L L_L s^2 + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{s (2C_4 C_L L_L s^2 + 2C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

10.847 INVALID-ORDER-847 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L g_m s (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(2C_4 L_L s^2 + C_L L_L s^2 + 1) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

10.848 INVALID-ORDER-848 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_L L_L s^2 + C_L R_L s + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{s (2C_4 C_L L_L s^2 + 2C_4 C_L R_L s + 2C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

10.849 INVALID-ORDER-849 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L g_m s (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(2C_4 L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

10.850 INVALID-ORDER-850 $Z(s) = \left(L_1s + \frac{1}{C_1s}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$

$$H(s) = \frac{g_m (C_1L_1R_1s^2 + L_1s + R_1) (C_LL_LR_Ls^2 + L_Ls + R_L)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (2C_4C_LL_LR_Ls^3 + 2C_4L_Ls^2 + 2C_4R_Ls + C_LL_Ls^2 + 1)}$$

10.851 INVALID-ORDER-851 $Z(s) = \left(L_1s + \frac{1}{C_1s}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$

$$H(s) = \frac{R_Lg_m (C_LL_Ls^2 + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (2C_4C_LL_LR_Ls^3 + 2C_4R_Ls + C_LL_Ls^2 + C_LR_Ls + 1)}$$

10.852 INVALID-ORDER-852 $Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_4R_Lg_m (C_1L_1R_1s^2 + L_1s + R_1)}{(2C_4R_4R_Ls + R_4 + 2R_L) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.853 INVALID-ORDER-853 $Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_4g_m (C_1L_1R_1s^2 + L_1s + R_1)}{(2C_4R_4s + C_LR_4s + 2) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.854 INVALID-ORDER-854 $Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{R_4R_Lg_m (C_1L_1R_1s^2 + L_1s + R_1)}{(2C_4R_4R_Ls + C_LR_4R_Ls + R_4 + 2R_L) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.855 INVALID-ORDER-855 $Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_4g_m (C_LR_Ls + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (2C_4C_LR_4R_Ls^2 + 2C_4R_4s + C_LR_4s + 2C_LR_Ls + 2)}$$

10.856 INVALID-ORDER-856 $Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_4g_m (C_LL_Ls^2 + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (2C_4C_LL_LR_4s^3 + 2C_4R_4s + 2C_LL_Ls^2 + C_LR_4s + 2)}$$

10.857 INVALID-ORDER-857 $Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1} \right)$

$$H(s) = \frac{L_LR_4g_ms (C_1L_1R_1s^2 + L_1s + R_1)}{(2C_4L_LR_4s^2 + C_LL_LR_4s^2 + 2L_Ls + R_4) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.858 INVALID-ORDER-858 $Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_4g_m (C_LL_Ls^2 + C_LR_Ls + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (2C_4C_LL_LR_4s^3 + 2C_4C_LR_4R_Ls^2 + 2C_4R_4s + 2C_LL_Ls^2 + C_LR_4s + 2C_LR_Ls + 2)}$$

10.859 INVALID-ORDER-859 $Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_LR_4R_Lg_ms (C_1L_1R_1s^2 + L_1s + R_1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (2C_4L_LR_4R_Ls^2 + C_LL_LR_4R_Ls^2 + L_LR_4s + 2L_LR_Ls + R_4R_L)}$$

10.860 INVALID-ORDER-860 $Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$

$$H(s) = \frac{R_4g_m (C_1L_1R_1s^2 + L_1s + R_1) (C_LL_LR_Ls^2 + L_Ls + R_L)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (2C_4C_LL_LR_4R_Ls^3 + 2C_4L_LR_4s^2 + 2C_4R_4R_Ls + C_LL_LR_4s^2 + 2C_LL_LR_Ls^2 + 2L_Ls + R_4 + 2R_L)}$$

10.861 INVALID-ORDER-861 $Z(s) = \left(L_1s + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$

$$H(s) = \frac{R_4R_Lg_m (C_LL_Ls^2 + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (2C_4C_LL_LR_4R_Ls^3 + 2C_4R_4R_Ls + C_LL_LR_4s^2 + 2C_LL_LR_Ls^2 + C_LR_4R_Ls + R_4 + 2R_L)}$$

10.862 INVALID-ORDER-862 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_Lg_m (C_4R_4s + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(C_4R_4s + 2C_4R_Ls + 1) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.863 INVALID-ORDER-863 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_4R_4s + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{s (C_4C_LR_4s + 2C_4 + C_L) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.864 INVALID-ORDER-864 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{R_Lg_m (C_4R_4s + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (C_4C_LR_4R_Ls^2 + C_4R_4s + 2C_4R_Ls + C_LR_Ls + 1)}$$

10.865 INVALID-ORDER-865 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_4R_4s + 1) (C_LR_Ls + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{s (C_4C_LR_4s + 2C_4C_LR_Ls + 2C_4 + C_L) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.866 INVALID-ORDER-866 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_4R_4s + 1) (C_LL_Ls^2 + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{s (2C_4C_LL_Ls^2 + C_4C_LR_4s + 2C_4 + C_L) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.867 INVALID-ORDER-867 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1} \right)$

$$H(s) = \frac{L_Lg_ms (C_4R_4s + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (C_4C_LL_LR_4s^3 + 2C_4L_Ls^2 + C_4R_4s + C_LL_Ls^2 + 1)}$$

10.868 INVALID-ORDER-868 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_4R_4s + 1) (C_LL_Ls^2 + C_LR_Ls + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{s (2C_4C_LL_Ls^2 + C_4C_LR_4s + 2C_4C_LR_Ls + 2C_4 + C_L) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.869 INVALID-ORDER-869 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_LR_Lg_ms (C_4R_4s + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (C_4C_LL_LR_4R_Ls^3 + C_4L_LR_4s^2 + 2C_4L_LR_Ls^2 + C_4R_4R_Ls + C_LL_LR_Ls^2 + L_Ls + R_L)}$$

10.870 INVALID-ORDER-870 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$

$$H(s) = \frac{g_m (C_4R_4s + 1) (C_1L_1R_1s^2 + L_1s + R_1) (C_LL_LR_Ls^2 + L_Ls + R_L)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (C_4C_LL_LR_4s^3 + 2C_4C_LL_LR_Ls^3 + 2C_4L_Ls^2 + C_4R_4s + 2C_4R_Ls + C_LL_Ls^2 + 1)}$$

10.871 INVALID-ORDER-871 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$

$$H(s) = \frac{R_Lg_m (C_4R_4s + 1) (C_LL_Ls^2 + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (C_4C_LL_LR_4s^3 + 2C_4C_LL_LR_Ls^3 + C_4C_LR_4R_Ls^2 + C_4R_4s + 2C_4R_Ls + C_LL_Ls^2 + C_LR_Ls + 1)}$$

10.872 INVALID-ORDER-872 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_Lg_m (C_4L_4s^2 + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(C_4L_4s^2 + 2C_4R_Ls + 1) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.873 INVALID-ORDER-873 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_4L_4s^2 + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{s (C_4C_LL_4s^2 + 2C_4 + C_L) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.874 INVALID-ORDER-874 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{R_Lg_m (C_4L_4s^2 + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (C_4C_LL_4R_Ls^3 + C_4L_4s^2 + 2C_4R_Ls + C_LR_Ls + 1)}$$

10.875 INVALID-ORDER-875 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_4L_4s^2 + 1) (C_LR_Ls + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{s (C_4C_LL_4s^2 + 2C_4C_LR_Ls + 2C_4 + C_L) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.876 INVALID-ORDER-876 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_4L_4s^2 + 1) (C_LL_Ls^2 + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{s (C_4C_LL_4s^2 + 2C_4C_LL_Ls^2 + 2C_4 + C_L) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.877 INVALID-ORDER-877 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} \right)$

$$H(s) = \frac{L_Lg_ms (C_4L_4s^2 + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (C_4C_LL_4L_Ls^4 + C_4L_4s^2 + 2C_4L_Ls^2 + C_LL_Ls^2 + 1)}$$

10.878 INVALID-ORDER-878 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_4L_4s^2 + 1) (C_LL_Ls^2 + C_LR_Ls + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{s (C_4C_LL_4s^2 + 2C_4C_LL_Ls^2 + 2C_4C_LR_Ls + 2C_4 + C_L) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.879 INVALID-ORDER-879 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_LR_Lg_ms (C_4L_4s^2 + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (C_4C_LL_4L_LR_Ls^4 + C_4L_4L_Ls^3 + C_4L_4R_Ls^2 + 2C_4L_LR_Ls^2 + C_LL_LR_Ls^2 + L_Ls + R_L)}$$

10.880 INVALID-ORDER-880 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$

$$H(s) = \frac{g_m (C_4L_4s^2 + 1) (C_1L_1R_1s^2 + L_1s + R_1) (C_LL_LR_Ls^2 + L_Ls + R_L)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (C_4C_LL_4L_Ls^4 + 2C_4C_LL_LR_Ls^3 + C_4L_4s^2 + 2C_4L_Ls^2 + 2C_4R_Ls + C_LL_Ls^2 + 1)}$$

10.881 INVALID-ORDER-881 $Z(s) = \left(L_1s + \frac{1}{C_1s}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$

$$H(s) = \frac{R_Lg_m (C_4L_4s^2 + 1) (C_LL_Ls^2 + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (C_4C_LL_4L_Ls^4 + C_4C_LL_4R_Ls^3 + 2C_4C_LL_LR_Ls^3 + C_4L_4s^2 + 2C_4R_Ls + C_LL_Ls^2 + C_LR_Ls + 1)}$$

10.882 INVALID-ORDER-882 $Z(s) = \left(L_1s + \frac{1}{C_1s}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_4R_Lg_ms (C_1L_1R_1s^2 + L_1s + R_1)}{(2C_4L_4R_Ls^2 + L_4s + 2R_L) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.883 INVALID-ORDER-883 $Z(s) = \left(L_1s + \frac{1}{C_1s}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_4g_ms (C_1L_1R_1s^2 + L_1s + R_1)}{(2C_4L_4s^2 + C_LL_4s^2 + 2) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.884 INVALID-ORDER-884 $Z(s) = \left(L_1s + \frac{1}{C_1s}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{L_4R_Lg_ms (C_1L_1R_1s^2 + L_1s + R_1)}{(2C_4L_4R_Ls^2 + C_LL_4R_Ls^2 + L_4s + 2R_L) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.885 INVALID-ORDER-885 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 g_m s (C_L R_L s + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (2C_4 C_L L_4 R_L s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L R_L s + 2)}$$

10.886 INVALID-ORDER-886 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 g_m s (C_L L_L s^2 + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (2C_4 C_L L_4 L_L s^4 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + 2)}$$

10.887 INVALID-ORDER-887 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_4 L_L g_m s (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(2C_4 L_4 L_L s^2 + C_L L_4 L_L s^2 + L_4 + 2L_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

10.888 INVALID-ORDER-888 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 g_m s (C_L L_L s^2 + C_L R_L s + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (2C_4 C_L L_4 L_L s^4 + 2C_4 C_L L_4 R_L s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + 2C_L R_L s + 2)}$$

10.889 INVALID-ORDER-889 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_4 L_L R_L g_m s (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (2C_4 L_4 L_L R_L s^2 + C_L L_4 L_L R_L s^2 + L_4 L_L s + L_4 R_L + 2L_L R_L)}$$

10.890 INVALID-ORDER-890 $Z(s) = \left(L_1s + \frac{1}{C_1s}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$

$$H(s) = \frac{L_4g_ms (C_1L_1R_1s^2 + L_1s + R_1) (C_LL_LR_Ls^2 + L_Ls + R_L)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (2C_4C_LL_LR_Ls^4 + 2C_4L_4L_Ls^3 + 2C_4L_4R_Ls^2 + C_LL_4L_Ls^3 + 2C_LL_LR_Ls^2 + L_4s + 2L_Ls + 2R_L)}$$

10.891 INVALID-ORDER-891 $Z(s) = \left(L_1s + \frac{1}{C_1s}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$

$$H(s) = \frac{L_4R_Lg_ms (C_LL_Ls^2 + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (2C_4C_LL_LR_Ls^4 + 2C_4L_4R_Ls^2 + C_LL_4L_Ls^3 + C_LL_4R_Ls^2 + 2C_LL_LR_Ls^2 + L_4s + 2R_L)}$$

10.892 INVALID-ORDER-892 $Z(s) = \left(L_1s + \frac{1}{C_1s}, \frac{R_2(L_2s + \frac{1}{C_2s})}{L_2s + R_2 + \frac{1}{C_2s}}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_Lg_m (C_4L_4s^2 + C_4R_4s + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(C_4L_4s^2 + C_4R_4s + 2C_4R_Ls + 1) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.893 INVALID-ORDER-893 $Z(s) = \left(L_1s + \frac{1}{C_1s}, \frac{R_2(L_2s + \frac{1}{C_2s})}{L_2s + R_2 + \frac{1}{C_2s}}, \infty, \infty, \infty, \frac{1}{C_Ls} \right)$

$$H(s) = \frac{g_m (C_4L_4s^2 + C_4R_4s + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{s (C_4C_LL_4s^2 + C_4C_LR_4s + 2C_4 + C_L) (C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1)}$$

10.894 INVALID-ORDER-894 $Z(s) = \left(L_1s + \frac{1}{C_1s}, \frac{R_2(L_2s + \frac{1}{C_2s})}{L_2s + R_2 + \frac{1}{C_2s}}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{R_Lg_m (C_4L_4s^2 + C_4R_4s + 1) (C_1L_1R_1s^2 + L_1s + R_1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + L_1g_ms + R_1g_m + 1) (C_4C_LL_4R_Ls^3 + C_4C_LR_4R_Ls^2 + C_4L_4s^2 + C_4R_4s + 2C_4R_Ls + C_LR_Ls + 1)}$$

$$10.895 \quad \text{INVALID-ORDER-895} \quad Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{g_m (C_L R_L s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{s (C_4 C_L L_4 s^2 + C_4 C_L R_4 s + 2 C_4 C_L R_L s + 2 C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

$$10.896 \quad \text{INVALID-ORDER-896} \quad Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{g_m (C_L L_L s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{s (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2 C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

$$10.897 \quad \text{INVALID-ORDER-897} \quad Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L g_m s (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + C_4 R_4 s + C_L L_L s^2 + 1)}$$

$$10.898 \quad \text{INVALID-ORDER-898} \quad Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{g_m (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_L L_L s^2 + C_L R_L s + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{s (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

$$10.899 \quad \text{INVALID-ORDER-899} \quad Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_L R_L g_m s (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 L_L s^3 + C_4 L_4 R_L s^2 + C_4 L_L R_4 s^2 + 2 C_4 L_L R_L s^2 + C_4 R_4 R_L s + C_L L_L R_L s^2 + L)}$$

$$10.900 \quad \text{INVALID-ORDER-900} \quad Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{g_m (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + 2 C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + C_4 R_4 s + 2 C_4 R_L s + C_L L_L s^2 + 1)}$$

$$10.901 \quad \text{INVALID-ORDER-901} \quad Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_L g_m (C_L L_L s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_L s^3 + C_4 C_L L_L R_4 s^3 + 2 C_4 C_L L_L R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 L_4 s^2 + C_4 R_4 s + 2 C_4 R_L s + C_L L_L s^2 + 1)}$$

$$10.902 \quad \text{INVALID-ORDER-902} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{L_4 R_4 R_L g_m s (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(2 C_4 L_4 R_4 R_L s^2 + L_4 R_4 s + 2 L_4 R_L s + 2 R_4 R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

$$10.903 \quad \text{INVALID-ORDER-903} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 R_4 g_m s (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(2 C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2 L_4 s + 2 R_4) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

$$10.904 \quad \text{INVALID-ORDER-904} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_4 R_4 R_L g_m s (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (2 C_4 L_4 R_4 R_L s^2 + C_L L_4 R_4 R_L s^2 + L_4 R_4 s + 2 L_4 R_L s + 2 R_4 R_L)}$$

$$10.905 \quad \text{INVALID-ORDER-905} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 R_4 g_m s (C_L R_L s + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L R_4 R_L s + 2L_4 s + 2R_4)}$$

$$10.906 \quad \text{INVALID-ORDER-906} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 R_4 g_m s (C_L L_L s^2 + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_L R_4 s^2 + 2L_4 s + 2R_4)}$$

$$10.907 \quad \text{INVALID-ORDER-907} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_4 L_L R_4 g_m s (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (2C_4 L_4 L_L R_4 s^2 + C_L L_4 L_L R_4 s^2 + 2L_4 L_L s + L_4 R_4 + 2L_L R_4)}$$

$$10.908 \quad \text{INVALID-ORDER-908} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 R_4 g_m s (C_L L_L s^2 + C_L R_L s + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L L_L R_4 s^2 + 2C_L R_4 R_L s + 2L_4 s + 2R_4)}$$

$$10.909 \quad \text{INVALID-ORDER-909} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_4 L_L R_4 R_L g_m s (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (2C_4 L_4 L_L R_4 R_L s^2 + C_L L_4 L_L R_4 R_L s^2 + L_4 L_L R_4 s + 2L_4 L_L R_L s + L_4 R_4 R_L + 2L_L R_4 R_L)}$$

10.910 INVALID-ORDER-910 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_4 R_4 g_m s (C_1 L_1 R_1 s^2 + L_1 s + R_1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + 2C_L L_L R_4 R_L s^2 + 2L_4 L_L s^2 + 2L_4 R_4 s + 2R_L)}$$

10.911 INVALID-ORDER-911 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_4 R_4 R_L g_m s (C_L L_L s^2 + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + C_L L_4 R_4 R_L s^2 + 2C_L L_L R_4 R_L s^2 + L_4 R_4 s + 2R_L)}$$

10.912 INVALID-ORDER-912 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_L g_m (C_1 L_1 R_1 s^2 + L_1 s + R_1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + L_4 s + R_4 + 2R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

10.913 INVALID-ORDER-913 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_1 L_1 R_1 s^2 + L_1 s + R_1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (C_4 C_L L_4 R_4 s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2)}$$

10.914 INVALID-ORDER-914 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L g_m (C_1 L_1 R_1 s^2 + L_1 s + R_1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 R_L s^2 + C_L R_4 R_L s + L_4 s + R_4 + 2R_L)}$$

10.915 INVALID-ORDER-915 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_L R_L s + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_4 R_L s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2 C_L R_L s + 2)}$$

10.916 INVALID-ORDER-916 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_L L_L s^2 + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (2 C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L L_L s^2 + C_L R_4 s + 2)}$$

10.917 INVALID-ORDER-917 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L g_m s (C_1 L_1 R_1 s^2 + L_1 s + R_1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + L_4 s + 2 L_L s + R_4)}$$

10.918 INVALID-ORDER-918 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{g_m (C_L L_L s^2 + C_L R_L s + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (2 C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_4 R_L s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L L_L s^2 + C_L R_4 s + 2 C_L R_L s + 2)}$$

10.919 INVALID-ORDER-919 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L g_m s (C_1 L_1 R_1 s^2 + L_1 s + R_1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2 C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_L s^3 + C_L L_L R_4 R_L s^2 + L_4 L_L s^2 + L_4 R_L s + R_L)}$$

10.920 INVALID-ORDER-920 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{g_m (C_1 L_1 R_1 s^2 + L_1 s + R_1) (C_4 L_4 R_4 s^2 + L_4 s + R_4) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + 2C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2)}$$

10.921 INVALID-ORDER-921 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_L g_m (C_L L_L s^2 + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_4 R_L s^2 + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2)}$$

10.922 INVALID-ORDER-922 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_4 R_L g_m (C_4 L_4 s^2 + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 R_4 R_L s + R_4 + 2R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1)}$$

10.923 INVALID-ORDER-923 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_4 g_m (C_4 L_4 s^2 + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (C_4 C_L L_4 R_4 s^3 + 2C_4 L_4 s^2 + 2C_4 R_4 s + C_L R_4 s + 2)}$$

10.924 INVALID-ORDER-924 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_4 R_L g_m (C_4 L_4 s^2 + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + 2C_4 R_4 R_L s + C_L R_4 R_L s + R_4 + 2R_L)}$$

$$10.925 \quad \text{INVALID-ORDER-925} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_4 g_m (C_4 L_4 s^2 + 1) (C_L R_L s + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_4 R_L s^3 + 2 C_4 C_L R_4 R_L s^2 + 2 C_4 L_4 s^2 + 2 C_4 R_4 s + C_L R_4 s + 2 C_L R_L s + 2)}$$

$$10.926 \quad \text{INVALID-ORDER-926} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_4 g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (2 C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_L R_4 s^3 + 2 C_4 L_4 s^2 + 2 C_4 R_4 s + 2 C_L L_L s^2 + C_L R_4 s + 2)}$$

$$10.927 \quad \text{INVALID-ORDER-927} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L R_4 g_m s (C_4 L_4 s^2 + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_L R_4 s^2 + C_L L_L R_4 s^2 + 2 L_L s + R_4)}$$

$$10.928 \quad \text{INVALID-ORDER-928} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_4 g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (2 C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_4 R_L s^3 + 2 C_4 C_L L_L R_4 s^3 + 2 C_4 C_L R_4 R_L s^2 + 2 C_4 L_4 s^2 + 2 C_4 R_4 s + 2 C_L L_L s^2 + C_L R_4 s + 2 C_L R_L s + 2)}$$

$$10.929 \quad \text{INVALID-ORDER-929} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_L R_4 R_L g_m s (C_4 L_4 s^2 + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 R_L s^4 + C_4 L_4 L_L R_4 s^3 + 2 C_4 L_4 L_L R_L s^3 + C_4 L_4 R_4 R_L s^2 + 2 C_4 L_L R_4 R_L s^2 + C_L L_L R_4 R_L s^2 + L_L R_4 s + 2 L_L R_L s + 2)}$$

10.930 INVALID-ORDER-930 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_4 g_m (C_4 L_4 s^2 + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 C_L L_4 L_L R_L s^4 + 2 C_4 C_L L_L R_4 R_L s^3 + 2 C_4 L_4 L_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + 2 C_4 L_L R_4 s^2 + 2 C_4 R_4 R_L s + C_4 R_4 + 1)}$$

10.931 INVALID-ORDER-931 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_4 R_L g_m (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1) (C_1 L_1 R_1 s^2 + L_1 s + R_1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + L_1 g_m s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + 2 C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + 2 C_4 R_4 R_L s + C_4 R_4 + 1)}$$

10.932 INVALID-ORDER-932 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_1 L_1 s^2 + 1)}{(C_L R_4 s + 2) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.933 INVALID-ORDER-933 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_1 R_4 R_L g_m (C_1 L_1 s^2 + 1)}{(C_L R_4 R_L s + R_4 + 2 R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.934 INVALID-ORDER-934 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_1 L_1 s^2 + 1) (C_L R_L s + 1)}{(C_L R_4 s + 2 C_L R_L s + 2) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.935 INVALID-ORDER-935 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{(2C_L L_L s^2 + C_L R_4 s + 2) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.936 INVALID-ORDER-936 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_1 R_4 g_m s (C_1 L_1 s^2 + 1)}{(C_L L_L R_4 s^2 + 2L_L s + R_4) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.937 INVALID-ORDER-937 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.938 INVALID-ORDER-938 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_1 R_4 R_L g_m s (C_1 L_1 s^2 + 1)}{(C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.939 INVALID-ORDER-939 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_1 L_1 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + 2L_L s + R_4 + 2R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

$$10.940 \quad \text{INVALID-ORDER-940} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_1 R_4 R_L g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{(C_L L_L R_4 s^2 + 2 C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2 R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

$$10.941 \quad \text{INVALID-ORDER-941} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_1 L_1 s^2 + 1)}{(2 C_4 R_L s + 1) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

$$10.942 \quad \text{INVALID-ORDER-942} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1)}{s (2 C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

$$10.943 \quad \text{INVALID-ORDER-943} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_1 L_1 s^2 + 1)}{(2 C_4 R_L s + C_L R_L s + 1) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

$$10.944 \quad \text{INVALID-ORDER-944} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_L R_L s + 1)}{s (2 C_4 C_L R_L s + 2 C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.945 INVALID-ORDER-945 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{s (2C_4 C_L L_L s^2 + 2C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.946 INVALID-ORDER-946 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_1 g_m s (C_1 L_1 s^2 + 1)}{(2C_4 L_L s^2 + C_L L_L s^2 + 1) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.947 INVALID-ORDER-947 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (2C_4 C_L L_L s^2 + 2C_4 C_L R_L s + 2C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.948 INVALID-ORDER-948 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_1 R_L g_m s (C_1 L_1 s^2 + 1)}{(2C_4 L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.949 INVALID-ORDER-949 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_L R_L s^3 + 2C_4 L_L s^2 + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

10.950 INVALID-ORDER-950 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_1 R_L g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_L R_L s^3 + 2C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

10.951 INVALID-ORDER-951 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_1 R_4 R_L g_m (C_1 L_1 s^2 + 1)}{(2C_4 R_4 R_L s + R_4 + 2R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.952 INVALID-ORDER-952 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_1 L_1 s^2 + 1)}{(2C_4 R_4 s + C_L R_4 s + 2) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.953 INVALID-ORDER-953 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_1 R_4 R_L g_m (C_1 L_1 s^2 + 1)}{(2C_4 R_4 R_L s + C_L R_4 R_L s + R_4 + 2R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.954 INVALID-ORDER-954 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_1 L_1 s^2 + 1) (C_L R_L s + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + C_L R_4 s + 2C_L R_L s + 2)}$$

10.955 INVALID-ORDER-955 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_L R_4 s^3 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2)}$$

10.956 INVALID-ORDER-956 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_1 R_4 g_m s (C_1 L_1 s^2 + 1)}{(2C_4 L_L R_4 s^2 + C_L L_L R_4 s^2 + 2L_L s + R_4) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.957 INVALID-ORDER-957 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_L R_4 s^3 + 2C_4 C_L R_4 R_L s^2 + 2C_4 R_4 s + 2C_L L_L s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

10.958 INVALID-ORDER-958 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_1 R_4 R_L g_m s (C_1 L_1 s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2C_4 L_L R_4 R_L s^2 + C_L L_L R_4 R_L s^2 + L_L R_4 s + 2L_L R_L s + R_4 R_L)}$$

10.959 INVALID-ORDER-959 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_1 R_4 g_m (C_1 L_1 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_L R_4 R_L s^3 + 2C_4 L_L R_4 s^2 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + 2L_L s + R_4 + 2R_L)}$$

10.960 INVALID-ORDER-960 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_1 R_4 R_L g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_L R_4 R_L s^3 + 2C_4 R_4 R_L s + C_L L_L R_4 s^2 + 2C_L L_L R_L s^2 + C_L R_4 R_L s + R_4 + 2R_L)}$$

10.961 INVALID-ORDER-961 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_1 R_L g_m (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1)}{(C_4 R_4 s + 2C_4 R_L s + 1) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.962 INVALID-ORDER-962 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1)}{s (C_4 C_L R_4 s + 2C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.963 INVALID-ORDER-963 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_1 R_L g_m (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L R_4 R_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L R_L s + 1)}$$

10.964 INVALID-ORDER-964 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1) (C_L R_L s + 1)}{s (C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.965 INVALID-ORDER-965 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1) (C_L L_L s^2 + 1)}{s (2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.966 INVALID-ORDER-966 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_1 g_m s (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_L R_4 s^3 + 2C_4 L_L s^2 + C_4 R_4 s + C_L L_L s^2 + 1)}$$

10.967 INVALID-ORDER-967 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (2C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.968 INVALID-ORDER-968 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_1 R_L g_m s (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_L R_4 R_L s^3 + C_4 L_L R_4 s^2 + 2C_4 L_L R_L s^2 + C_4 R_4 R_L s + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.969 INVALID-ORDER-969 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_L R_4 s^3 + 2C_4 C_L L_L R_L s^3 + 2C_4 L_L s^2 + C_4 R_4 s + 2C_4 R_L s + C_L L_L s^2 + 1)}$$

$$10.970 \quad \text{INVALID-ORDER-970} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_1 L_1 s^2 + 1) (C_4 R_4 s + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_L R_4 s^3 + 2 C_4 C_L L_L R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 R_4 s + 2 C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

$$10.971 \quad \text{INVALID-ORDER-971} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1)}{(C_4 L_4 s^2 + 2 C_4 R_L s + 1) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

$$10.972 \quad \text{INVALID-ORDER-972} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1)}{s (C_4 C_L L_4 s^2 + 2 C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

$$10.973 \quad \text{INVALID-ORDER-973} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 R_L s^3 + C_4 L_4 s^2 + 2 C_4 R_L s + C_L R_L s + 1)}$$

$$10.974 \quad \text{INVALID-ORDER-974} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1) (C_L R_L s + 1)}{s (C_4 C_L L_4 s^2 + 2 C_4 C_L R_L s + 2 C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.975 INVALID-ORDER-975 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{s (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + 2 C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.976 INVALID-ORDER-976 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_1 g_m s (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + C_L L_L s^2 + 1)}$$

10.977 INVALID-ORDER-977 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + 2 C_4 C_L R_L s + 2 C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.978 INVALID-ORDER-978 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_1 R_L g_m s (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_L s^4 + C_4 L_4 L_L s^3 + C_4 L_4 R_L s^2 + 2 C_4 L_L R_L s^2 + C_L L_L R_L s^2 + L_L s + R_L)}$$

10.979 INVALID-ORDER-979 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + 2 C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + 2 C_4 R_L s + C_L L_L s^2 + 1)}$$

$$10.980 \quad \text{INVALID-ORDER-980} \quad Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(L_2 s + \frac{1}{C_2 s} \right)}{L_2 s + R_2 + \frac{1}{C_2 s}}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_L s^3 + 2 C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2 C_4 R_L s + C_L L_L s^2 + C_L R_L s + 1)}$$

$$10.981 \quad \text{INVALID-ORDER-981} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{L_4 R_1 R_L g_m s (C_1 L_1 s^2 + 1)}{(2 C_4 L_4 R_L s^2 + L_4 s + 2 R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

$$10.982 \quad \text{INVALID-ORDER-982} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 R_1 g_m s (C_1 L_1 s^2 + 1)}{(2 C_4 L_4 s^2 + C_L L_4 s^2 + 2) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

$$10.983 \quad \text{INVALID-ORDER-983} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_4 R_1 R_L g_m s (C_1 L_1 s^2 + 1)}{(2 C_4 L_4 R_L s^2 + C_L L_4 R_L s^2 + L_4 s + 2 R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

$$10.984 \quad \text{INVALID-ORDER-984} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 R_1 g_m s (C_1 L_1 s^2 + 1) (C_L R_L s + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2 C_4 C_L L_4 R_L s^3 + 2 C_4 L_4 s^2 + C_L L_4 s^2 + 2 C_L R_L s + 2)}$$

10.985 INVALID-ORDER-985 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_1 g_m s (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_4 L_L s^4 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + 2)}$$

10.986 INVALID-ORDER-986 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_4 L_L R_1 g_m s (C_1 L_1 s^2 + 1)}{(2C_4 L_4 L_L s^2 + C_L L_4 L_L s^2 + L_4 + 2L_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.987 INVALID-ORDER-987 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_4 R_1 g_m s (C_1 L_1 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_4 L_L s^4 + 2C_4 C_L L_4 R_L s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + 2C_L L_L s^2 + 2C_L R_L s + 2)}$$

10.988 INVALID-ORDER-988 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_4 L_L R_1 R_L g_m s (C_1 L_1 s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2C_4 L_4 L_L R_L s^2 + C_L L_4 L_L R_L s^2 + L_4 L_L s + L_4 R_L + 2L_L R_L)}$$

10.989 INVALID-ORDER-989 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_4 R_1 g_m s (C_1 L_1 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_4 L_L R_L s^4 + 2C_4 L_4 L_L s^3 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + 2C_L L_L R_L s^2 + L_4 s + 2L_L s + 2R_L)}$$

$$10.990 \quad \text{INVALID-ORDER-990} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \quad R_2, \quad \infty, \quad \infty, \quad \infty, \quad \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_4 R_1 R_L g_m s (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_4 L_L R_L s^4 + 2C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_4 R_L s^2 + 2C_L L_L R_L s^2 + L_4 s + 2R_L)}$$

$$10.991 \quad \text{INVALID-ORDER-991} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \quad \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad R_L \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + 1) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

$$10.992 \quad \text{INVALID-ORDER-992} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \quad \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (C_4 C_L L_4 s^2 + C_4 C_L R_4 s + 2C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

$$10.993 \quad \text{INVALID-ORDER-993} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \quad \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 L_4 s^2 + C_4 R_4 s + 2C_4 R_L s + C_L R_L s + 1)}$$

$$10.994 \quad \text{INVALID-ORDER-994} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \quad \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_L R_L s + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (C_4 C_L L_4 s^2 + C_4 C_L R_4 s + 2C_4 C_L R_L s + 2C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.995 INVALID-ORDER-995 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{s (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2 C_4 + C_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

10.996 INVALID-ORDER-996 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_1 g_m s (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + C_4 R_4 s + C_L L_L s^2 + 1)}$$

10.997 INVALID-ORDER-997 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{s (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 s^2 + 2 C_4 C_L L_L s^2 + C_4 C_L R_4 s + 2 C_4 C_L R_L s + 2 C_4 + C_L)}$$

10.998 INVALID-ORDER-998 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_1 R_L g_m s (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 L_L s^3 + C_4 L_4 R_L s^2 + C_4 L_L R_4 s^2 + 2 C_4 L_L R_L s^2 + C_4 R_4 R_L s + C_L L_L R_L s^2 + L)}$$

10.999 INVALID-ORDER-999 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_L R_4 s^3 + 2 C_4 C_L L_L R_L s^3 + C_4 L_4 s^2 + 2 C_4 L_L s^2 + C_4 R_4 s + 2 C_4 R_L s + C_L L_L s^2 + 1)}$$

$$10.1000 \quad \text{INVALID-ORDER-1000} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1) (C_4 L_4 s^2 + C_4 R_4 s + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L s^4 + C_4 C_L L_4 R_L s^3 + C_4 C_L L_L R_4 s^3 + 2 C_4 C_L L_L R_L s^3 + C_4 C_L R_4 R_L s^2 + C_4 L_4 s^2 + C_4 R_4 s + 2 C_4 R_L s + C_L L_L s^2)}$$

$$10.1001 \quad \text{INVALID-ORDER-1001} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{L_4 R_1 R_4 R_L g_m s (C_1 L_1 s^2 + 1)}{(2 C_4 L_4 R_4 R_L s^2 + L_4 R_4 s + 2 L_4 R_L s + 2 R_4 R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

$$10.1002 \quad \text{INVALID-ORDER-1002} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 R_1 R_4 g_m s (C_1 L_1 s^2 + 1)}{(2 C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2 L_4 s + 2 R_4) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

$$10.1003 \quad \text{INVALID-ORDER-1003} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_4 R_1 R_4 R_L g_m s (C_1 L_1 s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2 C_4 L_4 R_4 R_L s^2 + C_L L_4 R_4 R_L s^2 + L_4 R_4 s + 2 L_4 R_L s + 2 R_4 R_L)}$$

$$10.1004 \quad \text{INVALID-ORDER-1004} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 R_1 R_4 g_m s (C_1 L_1 s^2 + 1) (C_L R_L s + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2 C_4 C_L L_4 R_4 R_L s^3 + 2 C_4 L_4 R_4 s^2 + C_L L_4 R_4 s^2 + 2 C_L L_4 R_L s^2 + 2 C_L R_4 R_L s + 2 L_4 s + 2 R_4)}$$

$$10.1005 \quad \text{INVALID-ORDER-1005} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \quad \frac{R_2}{C_2 R_2 s + 1}, \quad \infty, \quad \infty, \quad \infty, \quad L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 R_1 R_4 g_m s (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_L R_4 s^2 + 2L_4 s + 2R_4)}$$

$$10.1006 \quad \text{INVALID-ORDER-1006} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \quad \frac{R_2}{C_2 R_2 s + 1}, \quad \infty, \quad \infty, \quad \infty, \quad \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_4 L_L R_1 R_4 g_m s (C_1 L_1 s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2C_4 L_4 L_L R_4 s^2 + C_L L_4 L_L R_4 s^2 + 2L_4 L_L s + L_4 R_4 + 2L_L R_4)}$$

$$10.1007 \quad \text{INVALID-ORDER-1007} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \quad \frac{R_2}{C_2 R_2 s + 1}, \quad \infty, \quad \infty, \quad \infty, \quad L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_4 R_1 R_4 g_m s (C_1 L_1 s^2 + 1) (C_L L_L s^2 + C_L R_L s + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_4 L_L R_4 s^4 + 2C_4 C_L L_4 R_4 R_L s^3 + 2C_4 L_4 R_4 s^2 + 2C_L L_4 L_L s^3 + C_L L_4 R_4 s^2 + 2C_L L_4 R_L s^2 + 2C_L L_L R_4 s^2 + 2C_L R_4 R_L)}$$

$$10.1008 \quad \text{INVALID-ORDER-1008} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \quad \frac{R_2}{C_2 R_2 s + 1}, \quad \infty, \quad \infty, \quad \infty, \quad \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_4 L_L R_1 R_4 R_L g_m s (C_1 L_1 s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2C_4 L_4 L_L R_4 R_L s^2 + C_L L_4 L_L R_4 R_L s^2 + L_4 L_L R_4 s + 2L_4 L_L R_L s + L_4 R_4 R_L + 2L_L R_4 R_L)}$$

$$10.1009 \quad \text{INVALID-ORDER-1009} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \quad \frac{R_2}{C_2 R_2 s + 1}, \quad \infty, \quad \infty, \quad \infty, \quad \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_4 R_1 R_4 g_m s (C_1 L_1 s^2 + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 L_L R_4 s^3 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + 2C_L L_L R_4 R_L s^2 + 2L_4 L_L s^2 + 2R_4)}$$

$$\mathbf{10.1010 \quad INVALID-ORDER-1010} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_4 R_1 R_4 R_L g_m s (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (2C_4 C_L L_4 L_L R_4 R_L s^4 + 2C_4 L_4 R_4 R_L s^2 + C_L L_4 L_L R_4 s^3 + 2C_L L_4 L_L R_L s^3 + C_L L_4 R_4 R_L s^2 + 2C_L L_L R_4 R_L s^2 + L_4 R_4 s + 2L_4)}$$

$$\mathbf{10.1011 \quad INVALID-ORDER-1011} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_1 L_1 s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + L_4 s + R_4 + 2R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

$$\mathbf{10.1012 \quad INVALID-ORDER-1012} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 R_4 s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2)}$$

$$\mathbf{10.1013 \quad INVALID-ORDER-1013} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_1 L_1 s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2C_4 L_4 R_L s^2 + C_L L_4 R_L s^2 + C_L R_4 R_L s + L_4 s + R_4 + 2R_L)}$$

$$\mathbf{10.1014 \quad INVALID-ORDER-1014} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 g_m (C_1 L_1 s^2 + 1) (C_L R_L s + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 R_4 s^3 + 2C_4 C_L L_4 R_L s^3 + 2C_4 L_4 s^2 + C_L L_4 s^2 + C_L R_4 s + 2C_L R_L s + 2)}$$

10.1015 INVALID-ORDER-1015 $Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_1g_m (C_1L_1s^2 + 1) (C_LL_Ls^2 + 1) (C_4L_4R_4s^2 + L_4s + R_4)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + C_1R_1s + R_1g_m + 1) (2C_4C_LL_4L_Ls^4 + C_4C_LL_4R_4s^3 + 2C_4L_4s^2 + C_LL_4s^2 + 2C_LL_Ls^2 + C_LR_4s + 2)}$$

10.1016 INVALID-ORDER-1016 $Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1} \right)$

$$H(s) = \frac{L_LR_1g_ms (C_1L_1s^2 + 1) (C_4L_4R_4s^2 + L_4s + R_4)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + C_1R_1s + R_1g_m + 1) (C_4C_LL_4L_LR_4s^4 + 2C_4L_4L_Ls^3 + C_4L_4R_4s^2 + C_LL_4L_Ls^3 + C_LL_LR_4s^2 + L_4s + 2L_Ls + R_4)}$$

10.1017 INVALID-ORDER-1017 $Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_1g_m (C_1L_1s^2 + 1) (C_LL_Ls^2 + C_LR_Ls + 1) (C_4L_4R_4s^2 + L_4s + R_4)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + C_1R_1s + R_1g_m + 1) (2C_4C_LL_4L_Ls^4 + C_4C_LL_4R_4s^3 + 2C_4C_LL_4R_Ls^3 + 2C_4L_4s^2 + C_LL_4s^2 + 2C_LL_Ls^2 + C_LR_4s + 2C_LR_Ls + 2)}$$

10.1018 INVALID-ORDER-1018 $Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_LR_1R_Lg_ms (C_1L_1s^2 + 1) (C_4L_4R_4s^2 + L_4s + R_4)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + C_1R_1s + R_1g_m + 1) (C_4C_LL_4L_LR_4R_Ls^4 + C_4L_4L_LR_4s^3 + 2C_4L_4L_LR_Ls^3 + C_4L_4R_4R_Ls^2 + C_LL_4L_LR_Ls^3 + C_LL_LR_4R_Ls^2 + L_4L_Ls^2 + L_4R_Ls)}$$

10.1019 INVALID-ORDER-1019 $Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1} + R_L \right)$

$$H(s) = \frac{R_1g_m (C_1L_1s^2 + 1) (C_4L_4R_4s^2 + L_4s + R_4) (C_LL_LR_Ls^2 + L_Ls + R_L)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + C_1R_1s + R_1g_m + 1) (C_4C_LL_4L_LR_4s^4 + 2C_4C_LL_4L_LR_Ls^4 + 2C_4L_4L_Ls^3 + C_4L_4R_4s^2 + 2C_4L_4R_Ls^2 + C_LL_4L_Ls^3 + C_LL_LR_4s^2 + 2C_LL_LR_Ls^2)}$$

$$10.1020 \quad \text{INVALID-ORDER-1020} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \quad R_2 + \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_1 R_L g_m (C_1 L_1 s^2 + 1) (C_L L_L s^2 + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + C_L L_4 L_L s^3 + C_L L_4 R_L s^2 + C_L L_L R_4 s + R_L)}.$$

$$10.1021 \quad \text{INVALID-ORDER-1021} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \quad L_2 s + \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad R_L \right)$$

$$H(s) = \frac{R_1 R_4 R_L g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1)}{(C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + 2 C_4 R_4 R_L s + R_4 + 2 R_L) (C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1)}$$

$$10.1022 \quad \text{INVALID-ORDER-1022} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \quad L_2 s + \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 R_4 g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 R_4 s^3 + 2 C_4 L_4 s^2 + 2 C_4 R_4 s + C_L R_4 s + 2)}$$

$$10.1023 \quad \text{INVALID-ORDER-1023} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \quad L_2 s + \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_1 R_4 R_L g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + 2 C_4 R_4 R_L s + C_L R_4 R_L s + R_4 + 2 R_L)}$$

$$10.1024 \quad \text{INVALID-ORDER-1024} \quad Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \quad L_2 s + \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_1 R_4 g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1) (C_L R_L s + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 R_4 s^3 + 2 C_4 C_L L_4 R_L s^3 + 2 C_4 C_L R_4 R_L s^2 + 2 C_4 L_4 s^2 + 2 C_4 R_4 s + C_L R_4 s + 2 C_L R_L s + 2)}$$

10.1025 INVALID-ORDER-1025 $Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_1R_4g_m(C_1L_1s^2 + 1)(C_4L_4s^2 + 1)(C_LL_Ls^2 + 1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + C_1R_1s + R_1g_m + 1)(2C_4C_LL_4L_Ls^4 + C_4C_LL_4R_4s^3 + 2C_4C_LL_LR_4s^3 + 2C_4L_4s^2 + 2C_4R_4s + 2C_LL_Ls^2 + C_LR_4s + 2)}$$

10.1026 INVALID-ORDER-1026 $Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1} \right)$

$$H(s) = \frac{L_LR_1R_4g_ms(C_1L_1s^2 + 1)(C_4L_4s^2 + 1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + C_1R_1s + R_1g_m + 1)(C_4C_LL_4L_LR_4s^4 + 2C_4L_4L_Ls^3 + C_4L_4R_4s^2 + 2C_4L_LR_4s^2 + C_LL_LR_4s^2 + 2L_Ls + R_4)}$$

10.1027 INVALID-ORDER-1027 $Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_1R_4g_m(C_1L_1s^2 + 1)(C_4L_4s^2 + 1)(C_LL_Ls^2 + C_LR_Ls + 1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + C_1R_1s + R_1g_m + 1)(2C_4C_LL_4L_Ls^4 + C_4C_LL_4R_4s^3 + 2C_4C_LL_4R_Ls^3 + 2C_4C_LL_LR_4s^3 + 2C_4C_LR_4R_Ls^2 + 2C_4L_4s^2 + 2C_4R_4s + 2C_LL_Ls^2 + C_LR_Ls + 1)}$$

10.1028 INVALID-ORDER-1028 $Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_LR_1R_4R_Lg_ms(C_1L_1s^2 + 1)(C_4L_4s^2 + 1)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + C_1R_1s + R_1g_m + 1)(C_4C_LL_4L_LR_4R_Ls^4 + C_4L_4L_LR_4s^3 + 2C_4L_4L_LR_Ls^3 + C_4L_4R_4R_Ls^2 + 2C_4L_LR_4R_Ls^2 + C_LL_LR_4R_Ls^2 + L_LR_4s + 2L_LR_Ls + 1)}$$

10.1029 INVALID-ORDER-1029 $Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1} + R_L \right)$

$$H(s) = \frac{R_1R_4g_m(C_1L_1s^2 + 1)(C_4L_4s^2 + 1)(C_LL_LR_Ls^2 + L_Ls + R_L)}{(C_1L_1R_1g_ms^2 + C_1L_1s^2 + C_1R_1s + R_1g_m + 1)(C_4C_LL_4L_LR_4s^4 + 2C_4C_LL_4L_LR_Ls^4 + 2C_4C_LL_LR_4R_Ls^3 + 2C_4L_4L_Ls^3 + C_4L_4R_4s^2 + 2C_4L_4R_Ls^2 + 2C_4L_LR_4s^2 + 2C_4R_Ls + 2C_LL_LR_Ls^2 + L_LR_Ls + R_L)}$$

10.1030 INVALID-ORDER-1030 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \quad L_2 s + \frac{1}{C_2 s}, \quad \infty, \quad \infty, \quad \infty, \quad \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_1 R_4 R_L g_m (C_1 L_1 s^2 + 1) (C_4 L_4 s^2 + 1) (C_L L_L s^2 + 1)}{(C_1 L_1 R_1 g_m s^2 + C_1 L_1 s^2 + C_1 R_1 s + R_1 g_m + 1) (C_4 C_L L_4 L_L R_4 s^4 + 2 C_4 C_L L_4 L_L R_L s^4 + C_4 C_L L_4 R_4 R_L s^3 + 2 C_4 C_L L_L R_4 R_L s^3 + C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_L s^2 + 2 C_4 R_4 R_L s + C_4 R_4)}$$