Filter Summary Report: TIA,simple,Z2,Z5,ZL

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10.299 INVALID-ORDER-299 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$ . . . 124
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10.345 INVALID-ORDER-345 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{L_L s}{C_L L_L s^2+1}\right)$ . . . 133
10.346 INVALID-ORDER-346 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ L_L s + R_L + \frac{1}{C_L s}\right)$ . . . 133
10.347 INVALID-ORDER-347 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$ . . . 133
10.348 INVALID-ORDER-348 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$ . . . 133
10.349 INVALID-ORDER-349 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$ . . . 134
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10.351 INVALID-ORDER-351 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{1}{C_L s}\right)$ . . . 134
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10.356 INVALID-ORDER-356 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ L_L s + R_L + \frac{1}{C_L s}\right)$ . . . 135
10.357 INVALID-ORDER-357 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$ . . . 135
10.358 INVALID-ORDER-358 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$ . . . 135
10.359 INVALID-ORDER-359 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$ . . . 136
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10.361 INVALID-ORDER-361 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{R_L}{C_L R_L s+1}\right)$ . . . 136

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10.364 INVALID-ORDER-364 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{L_L s}{C_L L_L s^2+1}\right)$ . . . 137
10.365 INVALID-ORDER-365 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ L_L s + R_L + \frac{1}{C_L s}\right)$ . . . 137
10.366 INVALID-ORDER-366 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$ . . . 137
10.367 INVALID-ORDER-367 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$ . . . 137
10.368 INVALID-ORDER-368 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$ . . . 137
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10.370 INVALID-ORDER-370 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$ . . . 138
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10.372 INVALID-ORDER-372 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$ . . . 138
10.373 INVALID-ORDER-373 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$ . . . 138
10.374 INVALID-ORDER-374 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}\right)$ . . . 138
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10.376 INVALID-ORDER-376 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$ . . . 139
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10.378 INVALID-ORDER-378 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$ . . . 139
10.379 INVALID-ORDER-379 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ R_L\right)$ . . . 139
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10.383 INVALID-ORDER-383 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ L_L s + \frac{1}{C_L s}\right)$ . . . 140

10.384 INVALID-ORDER-384 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{L_L s}{C_L L_L s^2+1}\right)$ . . . 140
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10.405 INVALID-ORDER-405 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$ . . . 144

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10.411 INVALID-ORDER-411 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \frac{R_L}{C_L R_L s + 1}\right)$ . . . 146
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10.413 INVALID-ORDER-413 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ L_L s + \frac{1}{C_L s}\right)$ . . . 146
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10.417 INVALID-ORDER-417 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$ . . . 147
10.418 INVALID-ORDER-418 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$ . . . 147
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10.420 INVALID-ORDER-420 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$ . . . 147
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10.422 INVALID-ORDER-422 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$ . . . 148
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10.425 INVALID-ORDER-425 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$ . . . 148
10.426 INVALID-ORDER-426 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$ . . . 149
10.427 INVALID-ORDER-427 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$ . . . 149

10.428 INVALID-ORDER-428 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$ . . . 149
10.429 INVALID-ORDER-429 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ R_L\right)$ . . . 149
10.430 INVALID-ORDER-430 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{1}{C_L s}\right)$ . . . 149
10.431 INVALID-ORDER-431 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{R_L}{C_L R_L s + 1}\right)$ . . . 150
10.432 INVALID-ORDER-432 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ R_L + \frac{1}{C_L s}\right)$ . . . 150
10.433 INVALID-ORDER-433 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ L_L s + \frac{1}{C_L s}\right)$ . . . 150
10.434 INVALID-ORDER-434 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$ . . . 150
10.435 INVALID-ORDER-435 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ L_L s + R_L + \frac{1}{C_L s}\right)$ . . . 150
10.436 INVALID-ORDER-436 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$ . . . 151
10.437 INVALID-ORDER-437 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$ . . . 151
10.438 INVALID-ORDER-438 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$ . . . 151
10.439 INVALID-ORDER-439 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5,\ R_L\right)$ . . . 151
10.440 INVALID-ORDER-440 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5,\ \frac{1}{C_L s}\right)$ . . . 151
10.441 INVALID-ORDER-441 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5,\ \frac{R_L}{C_L R_L s + 1}\right)$ . . . 152
10.442 INVALID-ORDER-442 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5,\ R_L + \frac{1}{C_L s}\right)$ . . . 152
10.443 INVALID-ORDER-443 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5,\ L_L s + \frac{1}{C_L s}\right)$ . . . 152
10.444 INVALID-ORDER-444 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5,\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$ . . . 152
10.445 INVALID-ORDER-445 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5,\ L_L s + R_L + \frac{1}{C_L s}\right)$ . . . 152
10.446 INVALID-ORDER-446 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5,\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$ . . . 153
10.447 INVALID-ORDER-447 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5,\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$ . . . 153

10.448 INVALID-ORDER-448 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$ . . . 153
10.449 INVALID-ORDER-449 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ R_L\right)$ . . . 153
10.450 INVALID-ORDER-450 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{1}{C_L s}\right)$ . . . 153
10.451 INVALID-ORDER-451 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{R_L}{C_L R_L s+1}\right)$ . . . 154
10.452 INVALID-ORDER-452 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ R_L + \frac{1}{C_L s}\right)$ . . . 154
10.453 INVALID-ORDER-453 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ L_L s + \frac{1}{C_L s}\right)$ . . . 154
10.454 INVALID-ORDER-454 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{L_L s}{C_L L_L s^2+1}\right)$ . . . 154
10.455 INVALID-ORDER-455 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ L_L s + R_L + \frac{1}{C_L s}\right)$ . . . 154
10.456 INVALID-ORDER-456 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$ . . . 155
10.457 INVALID-ORDER-457 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$ . . . 155
10.458 INVALID-ORDER-458 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$ . . . 155
10.459 INVALID-ORDER-459 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{1}{C_L s}\right)$ . . . 155
10.460 INVALID-ORDER-460 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{R_L}{C_L R_L s+1}\right)$ . . . 155
10.461 INVALID-ORDER-461 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ R_L + \frac{1}{C_L s}\right)$ . . . 156
10.462 INVALID-ORDER-462 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ L_L s + \frac{1}{C_L s}\right)$ . . . 156
10.463 INVALID-ORDER-463 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{L_L s}{C_L L_L s^2+1}\right)$ . . . 156
10.464 INVALID-ORDER-464 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ L_L s + R_L + \frac{1}{C_L s}\right)$ . . . 156
10.465 INVALID-ORDER-465 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$ . . . 156
10.466 INVALID-ORDER-466 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$ . . . 157

10.467 INVALID-ORDER-467 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$ . . . 157
10.468 INVALID-ORDER-468 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ R_L\right)$ . . . 157
10.469 INVALID-ORDER-469 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$ . . . 157
10.470 INVALID-ORDER-470 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s + 1}\right)$ . . . 157
10.471 INVALID-ORDER-471 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$ . . . 158
10.472 INVALID-ORDER-472 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$ . . . 158
10.473 INVALID-ORDER-473 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$ . . . 158
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10.475 INVALID-ORDER-475 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$ . . . 158
10.476 INVALID-ORDER-476 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$ . . . 159
10.477 INVALID-ORDER-477 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$ . . . 159
10.478 INVALID-ORDER-478 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ R_L\right)$ . . . 159
10.479 INVALID-ORDER-479 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \frac{1}{C_L s}\right)$ . . . 159
10.480 INVALID-ORDER-480 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \frac{R_L}{C_L R_L s + 1}\right)$ . . . 159
10.481 INVALID-ORDER-481 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ R_L + \frac{1}{C_L s}\right)$ . . . 160
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10.483 INVALID-ORDER-483 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$ . . . 160
10.484 INVALID-ORDER-484 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ L_L s + R_L + \frac{1}{C_L s}\right)$ . . . 160
10.485 INVALID-ORDER-485 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$ . . . 160
10.486 INVALID-ORDER-486 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$ . . . 161
10.487 INVALID-ORDER-487 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$ . . . 161
10.488 INVALID-ORDER-488 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ R_L\right)$ . . . 161

10.489 INVALID-ORDER-489 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$ . . . 161
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10.491 INVALID-ORDER-491 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$ . . . 162
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10.495 INVALID-ORDER-495 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$ . . . 162
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10.501 INVALID-ORDER-501 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$ . . . 164
10.502 INVALID-ORDER-502 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$ . . . 164
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10.507 INVALID-ORDER-507 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$ . . . 165
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10.511 INVALID-ORDER-511 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ R_L + \frac{1}{C_L s}\right)$ . . . 166
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10.520 INVALID-ORDER-520 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$ . . . 167
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10.531 INVALID-ORDER-531 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ R_L + \frac{1}{C_L s}\right)$ . . . 170

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10.605 INVALID-ORDER-605 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$ . . . 184
10.606 INVALID-ORDER-606 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$ . . . 185
10.607 INVALID-ORDER-607 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ R_L\right)$ . . . 185
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10.609 INVALID-ORDER-609 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{R_L}{C_L R_L s+1}\right)$ . . . 185
10.610 INVALID-ORDER-610 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ R_L + \frac{1}{C_L s}\right)$ . . . 185
10.611 INVALID-ORDER-611 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ L_L s + \frac{1}{C_L s}\right)$ . . . 186
10.612 INVALID-ORDER-612 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{L_L s}{C_L L_L s^2+1}\right)$ . . . 186
10.613 INVALID-ORDER-613 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ L_L s + R_L + \frac{1}{C_L s}\right)$ . . . 186
10.614 INVALID-ORDER-614 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$ . . . 186

10.615 INVALID-ORDER-615 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$ . . . 186
10.616 INVALID-ORDER-616 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$ . . . 187
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10.621 INVALID-ORDER-621 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$ . . . 188
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10.625 INVALID-ORDER-625 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$ . . . 188
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10.627 INVALID-ORDER-627 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ R_L\right)$ . . . 189
10.628 INVALID-ORDER-628 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{1}{C_L s}\right)$ . . . 189
10.629 INVALID-ORDER-629 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{R_L}{C_L R_L s+1}\right)$ . . . 189
10.630 INVALID-ORDER-630 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ R_L + \frac{1}{C_L s}\right)$ . . . 189
10.631 INVALID-ORDER-631 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ L_L s + \frac{1}{C_L s}\right)$ . . . 190
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10.633 INVALID-ORDER-633 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ L_L s + R_L + \frac{1}{C_L s}\right)$ . . . 190
10.634 INVALID-ORDER-634 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$ . . . 190

10.635 INVALID-ORDER-635 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$ 190
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10.678 INVALID-ORDER-678 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{R_L}{C_L R_L s+1}\right)$ . . . 199
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10.680 INVALID-ORDER-680 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ L_L s + \frac{1}{C_L s}\right)$ . . . 199
10.681 INVALID-ORDER-681 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{L_L s}{C_L L_L s^2+1}\right)$ . . . 200
10.682 INVALID-ORDER-682 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ L_L s + R_L + \frac{1}{C_L s}\right)$ . . . 200
10.683 INVALID-ORDER-683 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$ . . . 200
10.684 INVALID-ORDER-684 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$ . . . 200
10.685 INVALID-ORDER-685 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$ . . . 200
10.686 INVALID-ORDER-686 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ R_L\right)$ . . . 201
10.687 INVALID-ORDER-687 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$ . . . 201

10.688 INVALID-ORDER-688 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$ 201
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10.690 INVALID-ORDER-690 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ L_L s+\frac{1}{C_L s}\right)$ 201
10.691 INVALID-ORDER-691 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}\right)$ 202
10.692 INVALID-ORDER-692 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ L_L s+R_L+\frac{1}{C_L s}\right)$ 202
10.693 INVALID-ORDER-693 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$ 202
10.694 INVALID-ORDER-694 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}+R_L\right)$ 202
10.695 INVALID-ORDER-695 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$ 202
10.696 INVALID-ORDER-696 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ R_L\right)$ 203
10.697 INVALID-ORDER-697 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$ 203
10.698 INVALID-ORDER-698 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$ 203
10.699 INVALID-ORDER-699 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ R_L+\frac{1}{C_L s}\right)$ 203
10.700 INVALID-ORDER-700 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ L_L s+\frac{1}{C_L s}\right)$ 203
10.701 INVALID-ORDER-701 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}\right)$ 204
10.702 INVALID-ORDER-702 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ L_L s+R_L+\frac{1}{C_L s}\right)$ 204
10.703 INVALID-ORDER-703 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$ 204
10.704 INVALID-ORDER-704 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}+R_L\right)$ 204

10.705 INVALID-ORDER-705 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$ . . . 204
10.706 INVALID-ORDER-706 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ R_L\right)$ . . . 205
10.707 INVALID-ORDER-707 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{1}{C_L s}\right)$ . . . 205
10.708 INVALID-ORDER-708 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{R_L}{C_L R_L s+1}\right)$ . . . 205
10.709 INVALID-ORDER-709 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ R_L+\frac{1}{C_L s}\right)$ . . . 205
10.710 INVALID-ORDER-710 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ L_L s+\frac{1}{C_L s}\right)$ . . . 205
10.711 INVALID-ORDER-711 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{L_L s}{C_L L_L s^2+1}\right)$ . . . 206
10.712 INVALID-ORDER-712 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ L_L s+R_L+\frac{1}{C_L s}\right)$ . . . 206
10.713 INVALID-ORDER-713 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$ . . . 206
10.714 INVALID-ORDER-714 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{L_L s}{C_L L_L s^2+1}+R_L\right)$ . . . 206
10.715 INVALID-ORDER-715 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$ . . . 206
10.716 INVALID-ORDER-716 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+R_5+\frac{1}{C_5 s},\ R_L\right)$ . . . 207
10.717 INVALID-ORDER-717 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+R_5+\frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$ . . . 207
10.718 INVALID-ORDER-718 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+R_5+\frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$ . . . 207
10.719 INVALID-ORDER-719 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+R_5+\frac{1}{C_5 s},\ R_L+\frac{1}{C_L s}\right)$ . . . 207
10.720 INVALID-ORDER-720 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+R_5+\frac{1}{C_5 s},\ L_L s+\frac{1}{C_L s}\right)$ . . . 207
10.721 INVALID-ORDER-721 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+R_5+\frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}\right)$ . . . 208

10.722 INVALID-ORDER-722 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$ 208
10.723 INVALID-ORDER-723 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$ 208
10.724 INVALID-ORDER-724 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$ 208
10.725 INVALID-ORDER-725 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$ 208
10.726 INVALID-ORDER-726 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ R_L\right)$ 209
10.727 INVALID-ORDER-727 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{1}{C_L s}\right)$ 209
10.728 INVALID-ORDER-728 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{R_L}{C_L R_L s+1}\right)$ 209
10.729 INVALID-ORDER-729 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ R_L + \frac{1}{C_L s}\right)$ 209
10.730 INVALID-ORDER-730 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ L_L s + \frac{1}{C_L s}\right)$ 209
10.731 INVALID-ORDER-731 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{L_L s}{C_L L_L s^2+1}\right)$ 210
10.732 INVALID-ORDER-732 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ L_L s + R_L + \frac{1}{C_L s}\right)$ 210
10.733 INVALID-ORDER-733 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$ 210
10.734 INVALID-ORDER-734 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$ 210
10.735 INVALID-ORDER-735 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$ 210
10.736 INVALID-ORDER-736 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ R_L\right)$ 211
10.737 INVALID-ORDER-737 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{1}{C_L s}\right)$ 211
10.738 INVALID-ORDER-738 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{R_L}{C_L R_L s+1}\right)$ 211

10.739 INVALID-ORDER-739 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1}+R_5,\ R_L+\frac{1}{C_L s}\right)$ 211
10.740 INVALID-ORDER-740 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1}+R_5,\ L_L s+\frac{1}{C_L s}\right)$ 211
10.741 INVALID-ORDER-741 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1}+R_5,\ \frac{L_L s}{C_L L_L s^2+1}\right)$ 212
10.742 INVALID-ORDER-742 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1}+R_5,\ L_L s+R_L+\frac{1}{C_L s}\right)$ 212
10.743 INVALID-ORDER-743 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1}+R_5,\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$ 212
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10.745 INVALID-ORDER-745 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1}+R_5,\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$ 212
10.746 INVALID-ORDER-746 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ R_L\right)$ 213
10.747 INVALID-ORDER-747 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{1}{C_L s}\right)$ 213
10.748 INVALID-ORDER-748 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{R_L}{C_L R_L s+1}\right)$ 213
10.749 INVALID-ORDER-749 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ R_L+\frac{1}{C_L s}\right)$ 213
10.750 INVALID-ORDER-750 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ L_L s+\frac{1}{C_L s}\right)$ 213
10.751 INVALID-ORDER-751 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{L_L s}{C_L L_L s^2+1}\right)$ 214
10.752 INVALID-ORDER-752 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ L_L s+R_L+\frac{1}{C_L s}\right)$ 214
10.753 INVALID-ORDER-753 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$ 214
10.754 INVALID-ORDER-754 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{L_L s}{C_L L_L s^2+1}+R_L\right)$ 214
10.755 INVALID-ORDER-755 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$ 214

1 Examined $H(z)$ for TIA simple Z2 Z5 ZL: $\frac{Z_L(Z_2Z_5g_m-Z_2+Z_5)}{Z_2Z_5g_m+2Z_2Z_Lg_m+Z_2+Z_5+4Z_L}$

$$H(z) = \frac{Z_L\left(Z_2Z_5g_m - Z_2 + Z_5\right)}{Z_2Z_5g_m + 2Z_2Z_Lg_m + Z_2 + Z_5 + 4Z_L}$$

2 HP

3 BP

3.1 BP-1 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ R_5,\ \frac{L_Ls}{C_LL_Ls^2+1}\right)$

$$H(s) = \frac{L_Ls\left(R_2R_5g_m - R_2 + R_5\right)}{C_LL_LR_2R_5g_ms^2 + C_LL_LR_2s^2 + C_LL_LR_5s^2 + 2L_LR_2g_ms + 4L_Ls + R_2R_5g_m + R_2 + R_5}$$

Parameters:

Q: $\frac{C_L\sqrt{\frac{1}{C_LL_L}}(R_2R_5g_m+R_2+R_5)}{2(R_2g_m+2)}$
wo: $\sqrt{\frac{1}{C_LL_L}}$
bandwidth: $\frac{2(R_2g_m+2)}{C_L(R_2R_5g_m+R_2+R_5)}$
K-LP: 0
K-HP: 0
K-BP: $\frac{R_2R_5g_m-R_2+R_5}{2(R_2g_m+2)}$
Qz: 0
Wz: None

3.2 BP-2 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ R_5,\ \frac{1}{C_Ls+\frac{1}{R_L}+\frac{1}{L_Ls}}\right)$

$$H(s) = \frac{L_LR_Ls\left(R_2R_5g_m - R_2 + R_5\right)}{C_LL_LR_2R_5R_Lg_ms^2 + C_LL_LR_2R_Ls^2 + C_LL_LR_5R_Ls^2 + L_LR_2R_5g_ms + 2L_LR_2R_Lg_ms + L_LR_2s + L_LR_5s + 4L_LR_Ls + R_2R_5R_Lg_m + R_2R_L + R_5R_L}$$

Parameters:

Q: $\frac{C_L R_L \sqrt{\frac{1}{C_L L_L}} (R_2 R_5 g_m + R_2 + R_5)}{R_2 R_5 g_m + 2R_2 R_L g_m + R_2 + R_5 + 4R_L}$
wo: $\sqrt{\frac{1}{C_L L_L}}$
bandwidth: $\frac{R_2 R_5 g_m + 2R_2 R_L g_m + R_2 + R_5 + 4R_L}{C_L R_L (R_2 R_5 g_m + R_2 + R_5)}$
K-LP: 0
K-HP: 0
K-BP: $\frac{R_L (R_2 R_5 g_m - R_2 + R_5)}{R_2 R_5 g_m + 2R_2 R_L g_m + R_2 + R_5 + 4R_L}$
Qz: 0
Wz: None

4 LP

5 BS

5.1 BS-1 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ R_5,\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(R_2 R_5 g_m - R_2 + R_5\right)}{2C_L L_L R_2 g_m s^2 + 4C_L L_L s^2 + C_L R_2 R_5 g_m s + C_L R_2 s + C_L R_5 s + 2R_2 g_m + 4}$$

Parameters:

Q: $\frac{2L_L \sqrt{\frac{1}{C_L L_L}} (R_2 g_m + 2)}{R_2 R_5 g_m + R_2 + R_5}$
wo: $\sqrt{\frac{1}{C_L L_L}}$
bandwidth: $\frac{R_2 R_5 g_m + R_2 + R_5}{2L_L (R_2 g_m + 2)}$
K-LP: $\frac{R_2 R_5 g_m - R_2 + R_5}{2(R_2 g_m + 2)}$
K-HP: $\frac{R_2 R_5 g_m - R_2 + R_5}{2(R_2 g_m + 2)}$
K-BP: 0
Qz: None
Wz: $\sqrt{\frac{1}{C_L L_L}}$

5.2 BS-2 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ R_5,\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = \frac{R_L\left(C_L L_L s^2+1\right)\left(R_2 R_5 g_m - R_2 + R_5\right)}{C_L L_L R_2 R_5 g_m s^2 + 2C_L L_L R_2 R_L g_m s^2 + C_L L_L R_2 s^2 + C_L L_L R_5 s^2 + 4C_L L_L R_L s^2 + C_L R_2 R_5 R_L g_m s + C_L R_2 R_L s + C_L R_5 R_L s + R_2 R_5 g_m + 2R_2 R_L g_m + R_2 + R_5 + 4R_L}$$

Parameters:

Q: $\frac{L_L\sqrt{\frac{1}{C_L L_L}}\left(R_2 R_5 g_m+2R_2 R_L g_m+R_2+R_5+4R_L\right)}{R_L\left(R_2 R_5 g_m+R_2+R_5\right)}$
wo: $\sqrt{\frac{1}{C_L L_L}}$
bandwidth: $\frac{R_L\left(R_2 R_5 g_m+R_2+R_5\right)}{L_L\left(R_2 R_5 g_m+2R_2 R_L g_m+R_2+R_5+4R_L\right)}$
K-LP: $\frac{R_L\left(R_2 R_5 g_m-R_2+R_5\right)}{R_2 R_5 g_m+2R_2 R_L g_m+R_2+R_5+4R_L}$
K-HP: $\frac{R_L\left(R_2 R_5 g_m-R_2+R_5\right)}{R_2 R_5 g_m+2R_2 R_L g_m+R_2+R_5+4R_L}$
K-BP: 0
Qz: None
Wz: $\sqrt{\frac{1}{C_L L_L}}$

6 GE

6.1 GE-1 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ R_5,\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(R_2 R_5 g_m - R_2 + R_5\right)}{2C_L L_L R_2 g_m s^2 + 4C_L L_L s^2 + C_L R_2 R_5 g_m s + 2C_L R_2 R_L g_m s + C_L R_2 s + C_L R_5 s + 4C_L R_L s + 2R_2 g_m + 4}$$

Parameters:

Q: $\frac{2L_L\sqrt{\frac{1}{C_L L_L}}\left(R_2 g_m+2\right)}{R_2 R_5 g_m+2R_2 R_L g_m+R_2+R_5+4R_L}$
wo: $\sqrt{\frac{1}{C_L L_L}}$
bandwidth: $\frac{R_2 R_5 g_m+2R_2 R_L g_m+R_2+R_5+4R_L}{2L_L\left(R_2 g_m+2\right)}$

K-LP: $\frac{R_2R_5g_m-R_2+R_5}{2(R_2g_m+2)}$
K-HP: $\frac{R_2R_5g_m-R_2+R_5}{2(R_2g_m+2)}$
K-BP: $\frac{R_L(R_2R_5g_m-R_2+R_5)}{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}$
Qz: $\frac{L_L\sqrt{\frac{1}{C_LL_L}}}{R_L}$
Wz: $\sqrt{\frac{1}{C_LL_L}}$

6.2 GE-2 $Z(s)=\left(\infty,\ R_2,\ \infty,\ \infty,\ R_5,\ \frac{L_Ls}{C_LL_Ls^2+1}+R_L\right)$

$$H(s)=\frac{(R_2R_5g_m-R_2+R_5)\left(C_LL_LR_Ls^2+L_Ls+R_L\right)}{C_LL_LR_2R_5g_ms^2+2C_LL_LR_2R_Lg_ms^2+C_LL_LR_2s^2+C_LL_LR_5s^2+4C_LL_LR_Ls^2+2L_LR_2g_ms+4L_Ls+R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}$$

Parameters:

Q: $\frac{C_L\sqrt{\frac{1}{C_LL_L}}(R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L)}{2(R_2g_m+2)}$
wo: $\sqrt{\frac{1}{C_LL_L}}$
bandwidth: $\frac{2(R_2g_m+2)}{C_L(R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L)}$
K-LP: $\frac{R_L(R_2R_5g_m-R_2+R_5)}{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}$
K-HP: $\frac{R_L(R_2R_5g_m-R_2+R_5)}{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}$
K-BP: $\frac{R_2R_5g_m-R_2+R_5}{2(R_2g_m+2)}$
Qz: $C_LR_L\sqrt{\frac{1}{C_LL_L}}$
Wz: $\sqrt{\frac{1}{C_LL_L}}$

6.3 GE-3 $Z(s)=\left(\infty,\ R_2,\ \infty,\ \infty,\ L_5s+\frac{1}{C_5s},\ R_L\right)$

$$H(s)=\frac{R_L\left(C_5L_5R_2g_ms^2+C_5L_5s^2-C_5R_2s+R_2g_m+1\right)}{C_5L_5R_2g_ms^2+C_5L_5s^2+2C_5R_2R_Lg_ms+C_5R_2s+4C_5R_Ls+R_2g_m+1}$$

Parameters:

Q: $\frac{L_5\sqrt{\frac{1}{C_5L_5}}(R_2g_m+1)}{2R_2R_Lg_m+R_2+4R_L}$

wo: $\sqrt{\frac{1}{C_5 L_5}}$
bandwidth: $\frac{2R_2R_Lg_m+R_2+4R_L}{L_5(R_2g_m+1)}$
K-LP: R_L
K-HP: R_L
K-BP: $-\frac{R_2R_L}{2R_2R_Lg_m+R_2+4R_L}$
Qz: $\frac{L_5\sqrt{\frac{1}{C_5L_5}}(-R_2g_m-1)}{R_2}$
Wz: $\sqrt{\frac{1}{C_5L_5}}$

6.4 GE-4 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_5L_5R_2s^2 + L_5R_2g_ms + L_5s - R_2\right)}{2C_5L_5R_2R_Lg_ms^2 + C_5L_5R_2s^2 + 4C_5L_5R_Ls^2 + L_5R_2g_ms + L_5s + 2R_2R_Lg_m + R_2 + 4R_L}$$

Parameters:

Q: $\frac{C_5\sqrt{\frac{1}{C_5L_5}}(2R_2R_Lg_m+R_2+4R_L)}{R_2g_m+1}$
wo: $\sqrt{\frac{1}{C_5L_5}}$
bandwidth: $\frac{R_2g_m+1}{C_5(2R_2R_Lg_m+R_2+4R_L)}$
K-LP: $-\frac{R_2R_L}{2R_2R_Lg_m+R_2+4R_L}$
K-HP: $-\frac{R_2R_L}{2R_2R_Lg_m+R_2+4R_L}$
K-BP: R_L
Qz: $-\frac{C_5R_2\sqrt{\frac{1}{C_5L_5}}}{R_2g_m+1}$
Wz: $\sqrt{\frac{1}{C_5L_5}}$

6.5 GE-5 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_5L_5R_2g_ms^2 + C_5L_5s^2 + C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{C_5L_5R_2g_ms^2 + C_5L_5s^2 + C_5R_2R_5g_ms + 2C_5R_2R_Lg_ms + C_5R_2s + C_5R_5s + 4C_5R_Ls + R_2g_m + 1}$$

Parameters:

Q: $\frac{L_5\sqrt{\frac{1}{C_5L_5}}(R_2g_m+1)}{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}$
wo: $\sqrt{\frac{1}{C_5L_5}}$
bandwidth: $\frac{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}{L_5(R_2g_m+1)}$
K-LP: R_L
K-HP: R_L
K-BP: $\frac{R_L(R_2R_5g_m-R_2+R_5)}{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}$
Qz: $\frac{L_5\sqrt{\frac{1}{C_5L_5}}(R_2g_m+1)}{R_2R_5g_m-R_2+R_5}$
Wz: $\sqrt{\frac{1}{C_5L_5}}$

6.6 GE-6 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5s+\frac{1}{R_5}+\frac{1}{L_5s}},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_5L_5R_2R_5s^2 + L_5R_2R_5g_ms - L_5R_2s + L_5R_5s - R_2R_5\right)}{2C_5L_5R_2R_5R_Lg_ms^2 + C_5L_5R_2R_5s^2 + 4C_5L_5R_5R_Ls^2 + L_5R_2R_5g_ms + 2L_5R_2R_Lg_ms + L_5R_2s + L_5R_5s + 4L_5R_Ls + 2R_2R_5R_Lg_m + R_2R_5 + 4R_5R_L}$$

Parameters:

Q: $\frac{C_5R_5\sqrt{\frac{1}{C_5L_5}}(2R_2R_Lg_m+R_2+4R_L)}{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}$
wo: $\sqrt{\frac{1}{C_5L_5}}$
bandwidth: $\frac{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}{C_5R_5(2R_2R_Lg_m+R_2+4R_L)}$
K-LP: $-\frac{R_2R_L}{2R_2R_Lg_m+R_2+4R_L}$
K-HP: $-\frac{R_2R_L}{2R_2R_Lg_m+R_2+4R_L}$
K-BP: $\frac{R_L(R_2R_5g_m-R_2+R_5)}{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}$
Qz: $-\frac{C_5R_2R_5\sqrt{\frac{1}{C_5L_5}}}{R_2R_5g_m-R_2+R_5}$
Wz: $\sqrt{\frac{1}{C_5L_5}}$

6.7 GE-7 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1} + R_5,\ R_L\right)$

$$H(s) = \frac{R_L\left(C_5L_5R_2R_5g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_5s^2 + L_5R_2g_ms + L_5s + R_2R_5g_m - R_2 + R_5\right)}{C_5L_5R_2R_5g_ms^2 + 2C_5L_5R_2R_Lg_ms^2 + C_5L_5R_2s^2 + C_5L_5R_5s^2 + 4C_5L_5R_Ls^2 + L_5R_2g_ms + L_5s + R_2R_5g_m + 2R_2R_Lg_m + R_2 + R_5 + 4R_L}$$

Parameters:

Q: $\frac{C_5\sqrt{\frac{1}{C_5L_5}}(R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L)}{R_2g_m+1}$
wo: $\sqrt{\frac{1}{C_5L_5}}$
bandwidth: $\frac{R_2g_m+1}{C_5(R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L)}$
K-LP: $\frac{R_L(R_2R_5g_m-R_2+R_5)}{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}$
K-HP: $\frac{R_L(R_2R_5g_m-R_2+R_5)}{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}$
K-BP: R_L
Qz: $\frac{C_5\sqrt{\frac{1}{C_5L_5}}(R_2R_5g_m-R_2+R_5)}{R_2g_m+1}$
Wz: $\sqrt{\frac{1}{C_5L_5}}$

6.8 GE-8 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5s+\frac{1}{C_5s}\right)}{L_5s+R_5+\frac{1}{C_5s}},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_5L_5R_2R_5g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_5s^2 - C_5R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{C_5L_5R_2R_5g_ms^2 + 2C_5L_5R_2R_Lg_ms^2 + C_5L_5R_2s^2 + C_5L_5R_5s^2 + 4C_5L_5R_Ls^2 + 2C_5R_2R_5R_Lg_ms + C_5R_2R_5s + 4C_5R_5R_Ls + R_2R_5g_m + 2R_2R_Lg_m + R_2 + R_5 + 4R_L}$$

Parameters:

Q: $\frac{L_5\sqrt{\frac{1}{C_5L_5}}(R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L)}{R_5(2R_2R_Lg_m+R_2+4R_L)}$
wo: $\sqrt{\frac{1}{C_5L_5}}$
bandwidth: $\frac{R_5(2R_2R_Lg_m+R_2+4R_L)}{L_5(R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L)}$
K-LP: $\frac{R_L(R_2R_5g_m-R_2+R_5)}{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}$
K-HP: $\frac{R_L(R_2R_5g_m-R_2+R_5)}{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}$
K-BP: $-\frac{R_2R_L}{2R_2R_Lg_m+R_2+4R_L}$
Qz: $\frac{L_5\sqrt{\frac{1}{C_5L_5}}(-R_2R_5g_m+R_2-R_5)}{R_2R_5}$
Wz: $\sqrt{\frac{1}{C_5L_5}}$

6.9 GE-9 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s + R_5 g_m - 1\right)}{C_2 L_2 R_5 g_m s^2 + 2C_2 L_2 R_L g_m s^2 + C_2 L_2 s^2 + C_2 R_5 s + 4C_2 R_L s + R_5 g_m + 2R_L g_m + 1}$$

Parameters:

Q: $\frac{L_2\sqrt{\frac{1}{C_2 L_2}}(R_5 g_m + 2R_L g_m + 1)}{R_5 + 4R_L}$
wo: $\sqrt{\frac{1}{C_2 L_2}}$
bandwidth: $\frac{R_5 + 4R_L}{L_2(R_5 g_m + 2R_L g_m + 1)}$
K-LP: $\frac{R_L(R_5 g_m - 1)}{R_5 g_m + 2R_L g_m + 1}$
K-HP: $\frac{R_L(R_5 g_m - 1)}{R_5 g_m + 2R_L g_m + 1}$
K-BP: $\frac{R_5 R_L}{R_5 + 4R_L}$
Qz: $\frac{L_2\sqrt{\frac{1}{C_2 L_2}}(R_5 g_m - 1)}{R_5}$
Wz: $\sqrt{\frac{1}{C_2 L_2}}$

6.10 GE-10 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s + R_5 g_m - 1\right)}{C_2 L_2 R_5 g_m s^2 + 2C_2 L_2 R_L g_m s^2 + C_2 L_2 s^2 + C_2 R_2 R_5 g_m s + 2C_2 R_2 R_L g_m s + C_2 R_2 s + C_2 R_5 s + 4C_2 R_L s + R_5 g_m + 2R_L g_m + 1}$$

Parameters:

Q: $\frac{L_2\sqrt{\frac{1}{C_2 L_2}}(R_5 g_m + 2R_L g_m + 1)}{R_2 R_5 g_m + 2R_2 R_L g_m + R_2 + R_5 + 4R_L}$
wo: $\sqrt{\frac{1}{C_2 L_2}}$
bandwidth: $\frac{R_2 R_5 g_m + 2R_2 R_L g_m + R_2 + R_5 + 4R_L}{L_2(R_5 g_m + 2R_L g_m + 1)}$
K-LP: $\frac{R_L(R_5 g_m - 1)}{R_5 g_m + 2R_L g_m + 1}$
K-HP: $\frac{R_L(R_5 g_m - 1)}{R_5 g_m + 2R_L g_m + 1}$
K-BP: $\frac{R_L(R_2 R_5 g_m - R_2 + R_5)}{R_2 R_5 g_m + 2R_2 R_L g_m + R_2 + R_5 + 4R_L}$
Qz: $\frac{L_2\sqrt{\frac{1}{C_2 L_2}}(R_5 g_m - 1)}{R_2 R_5 g_m - R_2 + R_5}$

Wz: $\sqrt{\frac{1}{C_2 L_2}}$

6.11 GE-11 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ R_5,\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2 L_2 R_2 R_5 g_m s^2 - C_2 L_2 R_2 s^2 + C_2 L_2 R_5 s^2 + L_2 R_5 g_m s - L_2 s + R_2 R_5 g_m - R_2 + R_5\right)}{C_2 L_2 R_2 R_5 g_m s^2 + 2C_2 L_2 R_2 R_L g_m s^2 + C_2 L_2 R_2 s^2 + C_2 L_2 R_5 s^2 + 4C_2 L_2 R_L s^2 + L_2 R_5 g_m s + 2L_2 R_L g_m s + L_2 s + R_2 R_5 g_m + 2R_2 R_L g_m + R_2 + R_5 + 4R_L}$$

Parameters:

Q: $\frac{C_2\sqrt{\frac{1}{C_2 L_2}}(R_2 R_5 g_m + 2R_2 R_L g_m + R_2 + R_5 + 4R_L)}{R_5 g_m + 2R_L g_m + 1}$

wo: $\sqrt{\frac{1}{C_2 L_2}}$

bandwidth: $\frac{R_5 g_m + 2R_L g_m + 1}{C_2(R_2 R_5 g_m + 2R_2 R_L g_m + R_2 + R_5 + 4R_L)}$

K-LP: $\frac{R_L(R_2 R_5 g_m - R_2 + R_5)}{R_2 R_5 g_m + 2R_2 R_L g_m + R_2 + R_5 + 4R_L}$

K-HP: $\frac{R_L(R_2 R_5 g_m - R_2 + R_5)}{R_2 R_5 g_m + 2R_2 R_L g_m + R_2 + R_5 + 4R_L}$

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

Qz: $\frac{C_2\sqrt{\frac{1}{C_2 L_2}}(R_2 R_5 g_m - R_2 + R_5)}{R_5 g_m - 1}$

Wz: $\sqrt{\frac{1}{C_2 L_2}}$

6.12 GE-12 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s + \frac{1}{C_2 s}\right)}{L_2 s + R_2 + \frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5,\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2 L_2 R_2 R_5 g_m s^2 - C_2 L_2 R_2 s^2 + C_2 L_2 R_5 s^2 + C_2 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5\right)}{C_2 L_2 R_2 R_5 g_m s^2 + 2C_2 L_2 R_2 R_L g_m s^2 + C_2 L_2 R_2 s^2 + C_2 L_2 R_5 s^2 + 4C_2 L_2 R_L s^2 + C_2 R_2 R_5 s + 4C_2 R_2 R_L s + R_2 R_5 g_m + 2R_2 R_L g_m + R_2 + R_5 + 4R_L}$$

Parameters:

Q: $\frac{L_2\sqrt{\frac{1}{C_2 L_2}}(R_2 R_5 g_m + 2R_2 R_L g_m + R_2 + R_5 + 4R_L)}{R_2(R_5 + 4R_L)}$

wo: $\sqrt{\frac{1}{C_2 L_2}}$

bandwidth: $\frac{R_2(R_5 + 4R_L)}{L_2(R_2 R_5 g_m + 2R_2 R_L g_m + R_2 + R_5 + 4R_L)}$

K-LP: $\frac{R_L(R_2 R_5 g_m - R_2 + R_5)}{R_2 R_5 g_m + 2R_2 R_L g_m + R_2 + R_5 + 4R_L}$

K-HP: $\frac{R_L(R_2R_5g_m-R_2+R_5)}{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}$
K-BP: $\frac{R_5R_L}{R_5+4R_L}$
Qz: $\frac{L_2\sqrt{\frac{1}{C_2L_2}}(R_2R_5g_m-R_2+R_5)}{R_2R_5}$
Wz: $\sqrt{\frac{1}{C_2L_2}}$

7 AP

8 INVALID-NUMER

8.1 INVALID-NUMER-1 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5s},\ \frac{R_L}{C_LR_Ls+1}\right)$

$$H(s) = \frac{R_L\left(-C_5R_2s + R_2g_m + 1\right)}{C_5C_LR_2R_Ls^2 + 2C_5R_2R_Lg_ms + C_5R_2s + 4C_5R_Ls + C_LR_2R_Lg_ms + C_LR_Ls + R_2g_m + 1}$$

Parameters:

Q: $\frac{C_5C_LR_2R_L\sqrt{\frac{R_2g_m+1}{C_5C_LR_2R_L}}}{2C_5R_2R_Lg_m+C_5R_2+4C_5R_L+C_LR_2R_Lg_m+C_LR_L}$
wo: $\sqrt{\frac{R_2g_m+1}{C_5C_LR_2R_L}}$
bandwidth: $\frac{2C_5R_2R_Lg_m+C_5R_2+4C_5R_L+C_LR_2R_Lg_m+C_LR_L}{C_5C_LR_2R_L}$
K-LP: R_L
K-HP: 0
K-BP: $-\frac{C_5R_2R_L}{2C_5R_2R_Lg_m+C_5R_2+4C_5R_L+C_LR_2R_Lg_m+C_LR_L}$
Qz: 0
Wz: None

8.2 INVALID-NUMER-2 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \frac{1}{C_Ls}\right)$

$$H(s) = \frac{-C_5R_2R_5s + R_2R_5g_m - R_2 + R_5}{C_5C_LR_2R_5s^2 + 2C_5R_2R_5g_ms + 4C_5R_5s + C_LR_2R_5g_ms + C_LR_2s + C_LR_5s + 2R_2g_m + 4}$$

Parameters:

Q: $\frac{\sqrt{2}C_5C_LR_2R_5\sqrt{\frac{R_2g_m+2}{C_5C_LR_2R_5}}}{2C_5R_2R_5g_m+4C_5R_5+C_LR_2R_5g_m+C_LR_2+C_LR_5}$
wo: $\sqrt{2}\sqrt{\frac{R_2g_m+2}{C_5C_LR_2R_5}}$
bandwidth: $\frac{2C_5R_2R_5g_m+4C_5R_5+C_LR_2R_5g_m+C_LR_2+C_LR_5}{C_5C_LR_2R_5}$
K-LP: $\frac{R_2R_5g_m-R_2+R_5}{2(R_2g_m+2)}$
K-HP: 0
K-BP: $-\frac{C_5R_2R_5}{2C_5R_2R_5g_m+4C_5R_5+C_LR_2R_5g_m+C_LR_2+C_LR_5}$
Qz: 0
Wz: None

8.3 INVALID-NUMER-3 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \frac{R_L}{C_LR_Ls+1}\right)$

$$H(s) = \frac{R_L\left(-C_5R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{C_5C_LR_2R_5R_Ls^2 + 2C_5R_2R_5R_Lg_ms + C_5R_2R_5s + 4C_5R_5R_Ls + C_LR_2R_5R_Lg_ms + C_LR_2R_Ls + C_LR_5R_Ls + R_2R_5g_m + 2R_2R_Lg_m + R_2 + R_5 + 4R_L}$$

Parameters:

Q: $\frac{C_5C_LR_2R_5R_L\sqrt{\frac{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}{C_5C_LR_2R_5R_L}}}{2C_5R_2R_5R_Lg_m+C_5R_2R_5+4C_5R_5R_L+C_LR_2R_5R_Lg_m+C_LR_2R_L+C_LR_5R_L}$
wo: $\sqrt{\frac{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}{C_5C_LR_2R_5R_L}}$
bandwidth: $\frac{2C_5R_2R_5R_Lg_m+C_5R_2R_5+4C_5R_5R_L+C_LR_2R_5R_Lg_m+C_LR_2R_L+C_LR_5R_L}{C_5C_LR_2R_5R_L}$
K-LP: $\frac{R_L(R_2R_5g_m-R_2+R_5)}{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}$
K-HP: 0
K-BP: $-\frac{C_5R_2R_5R_L}{2C_5R_2R_5R_Lg_m+C_5R_2R_5+4C_5R_5R_L+C_LR_2R_5R_Lg_m+C_LR_2R_L+C_LR_5R_L}$
Qz: 0
Wz: None

8.4 INVALID-NUMER-4 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ R_5 + \frac{1}{C_5s},\ \frac{R_L}{C_LR_Ls+1}\right)$

$$H(s) = \frac{R_L\left(C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{C_5C_LR_2R_5R_Lg_ms^2 + C_5C_LR_2R_Ls^2 + C_5C_LR_5R_Ls^2 + C_5R_2R_5g_ms + 2C_5R_2R_Lg_ms + C_5R_2s + C_5R_5s + 4C_5R_Ls + C_LR_2R_Lg_ms + C_LR_Ls + R_2g_m + 1}$$

Parameters:

Q: $\frac{C_5 C_L R_L \sqrt{\frac{R_2 g_m+1}{C_5 C_L R_L (R_2 R_5 g_m+R_2+R_5)}} (R_2 R_5 g_m+R_2+R_5)}{C_5 R_2 R_5 g_m+2C_5 R_2 R_L g_m+C_5 R_2+C_5 R_5+4C_5 R_L+C_L R_2 R_L g_m+C_L R_L}$
wo: $\sqrt{\frac{R_2 g_m+1}{C_5 C_L R_L (R_2 R_5 g_m+R_2+R_5)}}$
bandwidth: $\frac{C_5 R_2 R_5 g_m+2C_5 R_2 R_L g_m+C_5 R_2+C_5 R_5+4C_5 R_L+C_L R_2 R_L g_m+C_L R_L}{C_5 C_L R_L (R_2 R_5 g_m+R_2+R_5)}$
K-LP: R_L
K-HP: 0
K-BP: $\frac{C_5 R_L (R_2 R_5 g_m-R_2+R_5)}{C_5 R_2 R_5 g_m+2C_5 R_2 R_L g_m+C_5 R_2+C_5 R_5+4C_5 R_L+C_L R_2 R_L g_m+C_L R_L}$
Qz: 0
Wz: None

8.5 INVALID-NUMER-5 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 R_5 s + R_5 g_m - 1}{C_2 C_L R_5 s^2 + 4C_2 s + C_L R_5 g_m s + C_L s + 2g_m}$$

Parameters:

Q: $\frac{\sqrt{2} C_2 C_L R_5 \sqrt{\frac{g_m}{C_2 C_L R_5}}}{4C_2+C_L R_5 g_m+C_L}$
wo: $\sqrt{2}\sqrt{\frac{g_m}{C_2 C_L R_5}}$
bandwidth: $\frac{4C_2+C_L R_5 g_m+C_L}{C_2 C_L R_5}$
K-LP: $\frac{R_5 g_m-1}{2g_m}$
K-HP: 0
K-BP: $\frac{C_2 R_5}{4C_2+C_L R_5 g_m+C_L}$
Qz: 0
Wz: None

8.6 INVALID-NUMER-6 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L \left(C_2 R_5 s + R_5 g_m - 1\right)}{C_2 C_L R_5 R_L s^2 + C_2 R_5 s + 4C_2 R_L s + C_L R_5 R_L g_m s + C_L R_L s + R_5 g_m + 2R_L g_m + 1}$$

Parameters:

Q: $\frac{C_2 C_L R_5 R_L \sqrt{\frac{R_5 g_m + 2R_L g_m + 1}{C_2 C_L R_5 R_L}}}{C_2 R_5 + 4C_2 R_L + C_L R_5 R_L g_m + C_L R_L}$
wo: $\sqrt{\frac{R_5 g_m + 2R_L g_m + 1}{C_2 C_L R_5 R_L}}$
bandwidth: $\frac{C_2 R_5 + 4C_2 R_L + C_L R_5 R_L g_m + C_L R_L}{C_2 C_L R_5 R_L}$
K-LP: $\frac{R_L(R_5 g_m - 1)}{R_5 g_m + 2R_L g_m + 1}$
K-HP: 0
K-BP: $\frac{C_2 R_5 R_L}{C_2 R_5 + 4C_2 R_L + C_L R_5 R_L g_m + C_L R_L}$
Qz: 0
Wz: None

8.7 INVALID-NUMER-7 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2 s - C_5 s + g_m\right)}{4C_2 C_5 R_L s^2 + C_2 s + 2C_5 R_L g_m s + C_5 s + g_m}$$

Parameters:

Q: $\frac{2C_2 C_5 R_L \sqrt{\frac{g_m}{C_2 C_5 R_L}}}{C_2 + 2C_5 R_L g_m + C_5}$
wo: $\frac{\sqrt{\frac{g_m}{C_2 C_5 R_L}}}{2}$
bandwidth: $\frac{C_2 + 2C_5 R_L g_m + C_5}{4C_2 C_5 R_L}$
K-LP: R_L
K-HP: 0
K-BP: $\frac{R_L(C_2 - C_5)}{C_2 + 2C_5 R_L g_m + C_5}$
Qz: 0
Wz: None

8.8 INVALID-NUMER-8 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{R_L\left(C_2 s - C_5 s + g_m\right)}{4C_2 C_5 R_L s^2 + C_2 C_L R_L s^2 + C_2 s + C_5 C_L R_L s^2 + 2C_5 R_L g_m s + C_5 s + C_L R_L g_m s + g_m}$$

Parameters:

Q: $\frac{R_L\sqrt{\frac{g_m}{R_L(4C_2C_5+C_2C_L+C_5C_L)}}(4C_2C_5+C_2C_L+C_5C_L)}{C_2+2C_5R_Lg_m+C_5+C_LR_Lg_m}$
wo: $\sqrt{\frac{g_m}{R_L(4C_2C_5+C_2C_L+C_5C_L)}}$
bandwidth: $\frac{C_2+2C_5R_Lg_m+C_5+C_LR_Lg_m}{R_L(4C_2C_5+C_2C_L+C_5C_L)}$
K-LP: R_L
K-HP: 0
K-BP: $\frac{R_L(C_2-C_5)}{C_2+2C_5R_Lg_m+C_5+C_LR_Lg_m}$
Qz: 0
Wz: None

8.9 INVALID-NUMER-9 $Z(s) = \left(\infty,\ \frac{1}{C_2s},\ \infty,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2R_5s - C_5R_5s + R_5g_m - 1\right)}{4C_2C_5R_5R_Ls^2 + C_2R_5s + 4C_2R_Ls + 2C_5R_5R_Lg_ms + C_5R_5s + R_5g_m + 2R_Lg_m + 1}$$

Parameters:

Q: $\frac{2C_2C_5R_5R_L\sqrt{\frac{R_5g_m+2R_Lg_m+1}{C_2C_5R_5R_L}}}{C_2R_5+4C_2R_L+2C_5R_5R_Lg_m+C_5R_5}$
wo: $\frac{\sqrt{\frac{R_5g_m+2R_Lg_m+1}{C_2C_5R_5R_L}}}{2}$
bandwidth: $\frac{C_2R_5+4C_2R_L+2C_5R_5R_Lg_m+C_5R_5}{4C_2C_5R_5R_L}$
K-LP: $\frac{R_L(R_5g_m-1)}{R_5g_m+2R_Lg_m+1}$
K-HP: 0
K-BP: $\frac{R_5R_L(C_2-C_5)}{C_2R_5+4C_2R_L+2C_5R_5R_Lg_m+C_5R_5}$
Qz: 0
Wz: None

8.10 INVALID-NUMER-10 $Z(s) = \left(\infty,\ \frac{1}{C_2s},\ \infty,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \frac{1}{C_Ls}\right)$

$$H(s) = \frac{C_2R_5s - C_5R_5s + R_5g_m - 1}{4C_2C_5R_5s^2 + C_2C_LR_5s^2 + 4C_2s + C_5C_LR_5s^2 + 2C_5R_5g_ms + C_LR_5g_ms + C_Ls + 2g_m}$$

Parameters:

Q: $\frac{\sqrt{2}R_5\sqrt{\frac{g_m}{R_5(4C_2C_5+C_2C_L+C_5C_L)}}(4C_2C_5+C_2C_L+C_5C_L)}{4C_2+2C_5R_5g_m+C_LR_5g_m+C_L}$
wo: $\sqrt{2}\sqrt{\frac{g_m}{R_5(4C_2C_5+C_2C_L+C_5C_L)}}$
bandwidth: $\frac{4C_2+2C_5R_5g_m+C_LR_5g_m+C_L}{R_5(4C_2C_5+C_2C_L+C_5C_L)}$
K-LP: $\frac{R_5g_m-1}{2g_m}$
K-HP: 0
K-BP: $\frac{R_5(C_2-C_5)}{4C_2+2C_5R_5g_m+C_LR_5g_m+C_L}$
Qz: 0
Wz: None

8.11 INVALID-NUMER-11 $Z(s) = \left(\infty,\ \frac{1}{C_2s},\ \infty,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \frac{R_L}{C_LR_Ls+1}\right)$

$$H(s) = \frac{R_L\left(C_2R_5s - C_5R_5s + R_5g_m - 1\right)}{4C_2C_5R_5R_Ls^2 + C_2C_LR_5R_Ls^2 + C_2R_5s + 4C_2R_Ls + C_5C_LR_5R_Ls^2 + 2C_5R_5R_Lg_ms + C_5R_5s + C_LR_5R_Lg_ms + C_LR_Ls + R_5g_m + 2R_Lg_m + 1}$$

Parameters:

Q: $\frac{R_5R_L\sqrt{\frac{R_5g_m+2R_Lg_m+1}{R_5R_L(4C_2C_5+C_2C_L+C_5C_L)}}(4C_2C_5+C_2C_L+C_5C_L)}{C_2R_5+4C_2R_L+2C_5R_5R_Lg_m+C_5R_5+C_LR_5R_Lg_m+C_LR_L}$
wo: $\sqrt{\frac{R_5g_m+2R_Lg_m+1}{R_5R_L(4C_2C_5+C_2C_L+C_5C_L)}}$
bandwidth: $\frac{C_2R_5+4C_2R_L+2C_5R_5R_Lg_m+C_5R_5+C_LR_5R_Lg_m+C_LR_L}{R_5R_L(4C_2C_5+C_2C_L+C_5C_L)}$
K-LP: $\frac{R_L(R_5g_m-1)}{R_5g_m+2R_Lg_m+1}$
K-HP: 0
K-BP: $\frac{R_5R_L(C_2-C_5)}{C_2R_5+4C_2R_L+2C_5R_5R_Lg_m+C_5R_5+C_LR_5R_Lg_m+C_LR_L}$
Qz: 0
Wz: None

8.12 INVALID-NUMER-12 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ R_5,\ \frac{1}{C_Ls}\right)$

$$H(s) = \frac{C_2R_2R_5s + R_2R_5g_m - R_2 + R_5}{C_2C_LR_2R_5s^2 + 4C_2R_2s + C_LR_2R_5g_ms + C_LR_2s + C_LR_5s + 2R_2g_m + 4}$$

Parameters:

Q: $\frac{\sqrt{2}C_2C_LR_2R_5\sqrt{\frac{R_2g_m+2}{C_2C_LR_2R_5}}}{4C_2R_2+C_LR_2R_5g_m+C_LR_2+C_LR_5}$
wo: $\sqrt{2}\sqrt{\frac{R_2g_m+2}{C_2C_LR_2R_5}}$
bandwidth: $\frac{4C_2R_2+C_LR_2R_5g_m+C_LR_2+C_LR_5}{C_2C_LR_2R_5}$
K-LP: $\frac{R_2R_5g_m-R_2+R_5}{2(R_2g_m+2)}$
K-HP: 0
K-BP: $\frac{C_2R_2R_5}{4C_2R_2+C_LR_2R_5g_m+C_LR_2+C_LR_5}$
Qz: 0
Wz: None

8.13 INVALID-NUMER-13 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ R_5,\ \frac{R_L}{C_LR_Ls+1}\right)$

$$H(s) = \frac{R_L\left(C_2R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{C_2C_LR_2R_5R_Ls^2 + C_2R_2R_5s + 4C_2R_2R_Ls + C_LR_2R_5R_Lg_ms + C_LR_2R_Ls + C_LR_5R_Ls + R_2R_5g_m + 2R_2R_Lg_m + R_2 + R_5 + 4R_L}$$

Parameters:

Q: $\frac{C_2C_LR_2R_5R_L\sqrt{\frac{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}{C_2C_LR_2R_5R_L}}}{C_2R_2R_5+4C_2R_2R_L+C_LR_2R_5R_Lg_m+C_LR_2R_L+C_LR_5R_L}$
wo: $\sqrt{\frac{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}{C_2C_LR_2R_5R_L}}$
bandwidth: $\frac{C_2R_2R_5+4C_2R_2R_L+C_LR_2R_5R_Lg_m+C_LR_2R_L+C_LR_5R_L}{C_2C_LR_2R_5R_L}$
K-LP: $\frac{R_L(R_2R_5g_m-R_2+R_5)}{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}$
K-HP: 0
K-BP: $\frac{C_2R_2R_5R_L}{C_2R_2R_5+4C_2R_2R_L+C_LR_2R_5R_Lg_m+C_LR_2R_L+C_LR_5R_L}$
Qz: 0
Wz: None

8.14 INVALID-NUMER-14 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2R_2s - C_5R_2s + R_2g_m + 1\right)}{4C_2C_5R_2R_Ls^2 + C_2R_2s + 2C_5R_2R_Lg_ms + C_5R_2s + 4C_5R_Ls + R_2g_m + 1}$$

Parameters:

Q: $\frac{2C_2C_5R_2R_L\sqrt{\frac{R_2g_m+1}{C_2C_5R_2R_L}}}{C_2R_2+2C_5R_2R_Lg_m+C_5R_2+4C_5R_L}$
wo: $\frac{\sqrt{\frac{R_2g_m+1}{C_2C_5R_2R_L}}}{2}$
bandwidth: $\frac{C_2R_2+2C_5R_2R_Lg_m+C_5R_2+4C_5R_L}{4C_2C_5R_2R_L}$
K-LP: R_L
K-HP: 0
K-BP: $\frac{R_2R_L(C_2-C_5)}{C_2R_2+2C_5R_2R_Lg_m+C_5R_2+4C_5R_L}$
Qz: 0
Wz: None

8.15 INVALID-NUMER-15 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s},\ \frac{R_L}{C_LR_Ls+1}\right)$

$$H(s) = \frac{R_L\left(C_2R_2s - C_5R_2s + R_2g_m + 1\right)}{4C_2C_5R_2R_Ls^2 + C_2C_LR_2R_Ls^2 + C_2R_2s + C_5C_LR_2R_Ls^2 + 2C_5R_2R_Lg_ms + C_5R_2s + 4C_5R_Ls + C_LR_2R_Lg_ms + C_LR_Ls + R_2g_m + 1}$$

Parameters:

Q: $\frac{R_2R_L\sqrt{\frac{R_2g_m+1}{R_2R_L\left(4C_2C_5+C_2C_L+C_5C_L\right)}}(4C_2C_5+C_2C_L+C_5C_L)}{C_2R_2+2C_5R_2R_Lg_m+C_5R_2+4C_5R_L+C_LR_2R_Lg_m+C_LR_L}$
wo: $\sqrt{\frac{R_2g_m+1}{R_2R_L(4C_2C_5+C_2C_L+C_5C_L)}}$
bandwidth: $\frac{C_2R_2+2C_5R_2R_Lg_m+C_5R_2+4C_5R_L+C_LR_2R_Lg_m+C_LR_L}{R_2R_L(4C_2C_5+C_2C_L+C_5C_L)}$
K-LP: R_L
K-HP: 0
K-BP: $\frac{R_2R_L(C_2-C_5)}{C_2R_2+2C_5R_2R_Lg_m+C_5R_2+4C_5R_L+C_LR_2R_Lg_m+C_LR_L}$
Qz: 0
Wz: None

8.16 INVALID-NUMER-16 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2R_2R_5s - C_5R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{4C_2C_5R_2R_5R_Ls^2 + C_2R_2R_5s + 4C_2R_2R_Ls + 2C_5R_2R_5R_Lg_ms + C_5R_2R_5s + 4C_5R_5R_Ls + R_2R_5g_m + 2R_2R_Lg_m + R_2 + R_5 + 4R_L}$$

Parameters:

Q: $\frac{2C_2C_5R_2R_5R_L\sqrt{\frac{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}{C_2C_5R_2R_5R_L}}}{C_2R_2R_5+4C_2R_2R_L+2C_5R_2R_5R_Lg_m+C_5R_2R_5+4C_5R_5R_L}$
wo: $\frac{\sqrt{\frac{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}{C_2C_5R_2R_5R_L}}}{2}$
bandwidth: $\frac{C_2R_2R_5+4C_2R_2R_L+2C_5R_2R_5R_Lg_m+C_5R_2R_5+4C_5R_5R_L}{4C_2C_5R_2R_5R_L}$
K-LP: $\frac{R_L(R_2R_5g_m-R_2+R_5)}{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}$
K-HP: 0
K-BP: $\frac{R_2R_5R_L(C_2-C_5)}{C_2R_2R_5+4C_2R_2R_L+2C_5R_2R_5R_Lg_m+C_5R_2R_5+4C_5R_5R_L}$
Qz: 0
Wz: None

8.17 INVALID-NUMER-17 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \frac{1}{C_Ls}\right)$

$$H(s) = \frac{C_2R_2R_5s - C_5R_2R_5s + R_2R_5g_m - R_2 + R_5}{4C_2C_5R_2R_5s^2 + C_2C_LR_2R_5s^2 + 4C_2R_2s + C_5C_LR_2R_5s^2 + 2C_5R_2R_5g_ms + 4C_5R_5s + C_LR_2R_5g_ms + C_LR_2s + C_LR_5s + 2R_2g_m + 4}$$

Parameters:

Q: $\frac{\sqrt{2}R_2R_5\sqrt{\frac{R_2g_m+2}{R_2R_5(4C_2C_5+C_2C_L+C_5C_L)}}(4C_2C_5+C_2C_L+C_5C_L)}{4C_2R_2+2C_5R_2R_5g_m+4C_5R_5+C_LR_2R_5g_m+C_LR_2+C_LR_5}$
wo: $\sqrt{2}\sqrt{\frac{R_2g_m+2}{R_2R_5(4C_2C_5+C_2C_L+C_5C_L)}}$
bandwidth: $\frac{4C_2R_2+2C_5R_2R_5g_m+4C_5R_5+C_LR_2R_5g_m+C_LR_2+C_LR_5}{R_2R_5(4C_2C_5+C_2C_L+C_5C_L)}$
K-LP: $\frac{R_2R_5g_m-R_2+R_5}{2(R_2g_m+2)}$
K-HP: 0
K-BP: $\frac{R_2R_5(C_2-C_5)}{4C_2R_2+2C_5R_2R_5g_m+4C_5R_5+C_LR_2R_5g_m+C_LR_2+C_LR_5}$
Qz: 0
Wz: None

8.18 INVALID-NUMER-18 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \frac{R_L}{C_LR_Ls+1}\right)$

$$H(s) = \frac{R_L\left(C_2R_2R_5s - C_5R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{4C_2C_5R_2R_5R_Ls^2 + C_2C_LR_2R_5R_Ls^2 + C_2R_2R_5s + 4C_2R_2R_Ls + C_5C_LR_2R_5R_Ls^2 + 2C_5R_2R_5R_Lg_ms + C_5R_2R_5s + 4C_5R_5R_Ls + C_LR_2R_5R_Lg_ms + C_LR_2R_Ls + C_LR_5R_L}$$

Parameters:

Q: $\frac{R_2R_5R_L\sqrt{\frac{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}{R_2R_5R_L(4C_2C_5+C_2C_L+C_5C_L)}}(4C_2C_5+C_2C_L+C_5C_L)}{C_2R_2R_5+4C_2R_2R_L+2C_5R_2R_5R_Lg_m+C_5R_2R_5+4C_5R_5R_L+C_LR_2R_5R_Lg_m+C_LR_2R_L+C_LR_5R_L}$

wo: $\sqrt{\frac{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}{R_2R_5R_L(4C_2C_5+C_2C_L+C_5C_L)}}$

bandwidth: $\frac{C_2R_2R_5+4C_2R_2R_L+2C_5R_2R_5R_Lg_m+C_5R_2R_5+4C_5R_5R_L+C_LR_2R_5R_Lg_m+C_LR_2R_L+C_LR_5R_L}{R_2R_5R_L(4C_2C_5+C_2C_L+C_5C_L)}$

K-LP: $\frac{R_L(R_2R_5g_m-R_2+R_5)}{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}$

K-HP: 0

K-BP: $\frac{R_2R_5R_L(C_2-C_5)}{C_2R_2R_5+4C_2R_2R_L+2C_5R_2R_5R_Lg_m+C_5R_2R_5+4C_5R_5R_L+C_LR_2R_5R_Lg_m+C_LR_2R_L+C_LR_5R_L}$

Qz: 0

Wz: None

8.19 INVALID-NUMER-19 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2R_2R_5g_ms - C_2R_2s + C_2R_5s + R_5g_m - 1}{C_2C_LR_2R_5g_ms^2 + C_2C_LR_2s^2 + C_2C_LR_5s^2 + 2C_2R_2g_ms + 4C_2s + C_LR_5g_ms + C_Ls + 2g_m}$$

Parameters:

Q: $\frac{\sqrt{2}C_2C_L\sqrt{\frac{g_m}{C_2C_L(R_2R_5g_m+R_2+R_5)}}(R_2R_5g_m+R_2+R_5)}{2C_2R_2g_m+4C_2+C_LR_5g_m+C_L}$

wo: $\sqrt{2}\sqrt{\frac{g_m}{C_2C_L(R_2R_5g_m+R_2+R_5)}}$

bandwidth: $\frac{2C_2R_2g_m+4C_2+C_LR_5g_m+C_L}{C_2C_L(R_2R_5g_m+R_2+R_5)}$

K-LP: $\frac{R_5g_m-1}{2g_m}$

K-HP: 0

K-BP: $\frac{C_2(R_2R_5g_m-R_2+R_5)}{2C_2R_2g_m+4C_2+C_LR_5g_m+C_L}$

Qz: 0

Wz: None

8.20 INVALID-NUMER-20 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(C_2R_2R_5g_ms - C_2R_2s + C_2R_5s + R_5g_m - 1\right)}{C_2C_LR_2R_5R_Lg_ms^2 + C_2C_LR_2R_Ls^2 + C_2C_LR_5R_Ls^2 + C_2R_2R_5g_ms + 2C_2R_2R_Lg_ms + C_2R_2s + C_2R_5s + 4C_2R_Ls + C_LR_5R_Lg_ms + C_LR_Ls + R_5g_m + 2R_Lg_m + 1}$$

Parameters:

Q: $\frac{C_2 C_L R_L \sqrt{\frac{R_5 g_m+2R_L g_m+1}{C_2 C_L R_L (R_2 R_5 g_m+R_2+R_5)}}(R_2 R_5 g_m+R_2+R_5)}{C_2 R_2 R_5 g_m+2C_2 R_2 R_L g_m+C_2 R_2+C_2 R_5+4C_2 R_L+C_L R_5 R_L g_m+C_L R_L}$

wo: $\sqrt{\frac{R_5 g_m+2R_L g_m+1}{C_2 C_L R_L (R_2 R_5 g_m+R_2+R_5)}}$

bandwidth: $\frac{C_2 R_2 R_5 g_m+2C_2 R_2 R_L g_m+C_2 R_2+C_2 R_5+4C_2 R_L+C_L R_5 R_L g_m+C_L R_L}{C_2 C_L R_L (R_2 R_5 g_m+R_2+R_5)}$

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

K-HP: 0

K-BP: $\frac{C_2 R_L (R_2 R_5 g_m-R_2+R_5)}{C_2 R_2 R_5 g_m+2C_2 R_2 R_L g_m+C_2 R_2+C_2 R_5+4C_2 R_L+C_L R_5 R_L g_m+C_L R_L}$

Qz: 0

Wz: None

9 INVALID-WZ

9.1 INVALID-WZ-1 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ R_L+\frac{1}{C_L s}\right)$

$$H(s) = -\frac{(C_L R_L s+1)\left(C_5 R_2 R_5 s - R_2 R_5 g_m + R_2 - R_5\right)}{2C_5 C_L R_2 R_5 R_L g_m s^2 + C_5 C_L R_2 R_5 s^2 + 4C_5 C_L R_5 R_L s^2 + 2C_5 R_2 R_5 g_m s + 4C_5 R_5 s + C_L R_2 R_5 g_m s + 2C_L R_2 R_L g_m s + C_L R_2 s + C_L R_5 s + 4C_L R_L s + 2R_2 g_m + 4}$$

Parameters:

Q: $\frac{\sqrt{2}C_5 C_L R_5 \sqrt{\frac{R_2 g_m+2}{C_5 C_L R_5 (2R_2 R_L g_m+R_2+4R_L)}}(2R_2 R_L g_m+R_2+4R_L)}{2C_5 R_2 R_5 g_m+4C_5 R_5+C_L R_2 R_5 g_m+2C_L R_2 R_L g_m+C_L R_2+C_L R_5+4C_L R_L}$

wo: $\sqrt{2}\sqrt{\frac{R_2 g_m+2}{C_5 C_L R_5 (2R_2 R_L g_m+R_2+4R_L)}}$

bandwidth: $\frac{2C_5 R_2 R_5 g_m+4C_5 R_5+C_L R_2 R_5 g_m+2C_L R_2 R_L g_m+C_L R_2+C_L R_5+4C_L R_L}{C_5 C_L R_5 (2R_2 R_L g_m+R_2+4R_L)}$

K-LP: $\frac{R_2 R_5 g_m-R_2+R_5}{2(R_2 g_m+2)}$

K-HP: $-\frac{R_2 R_L}{2R_2 R_L g_m+R_2+4R_L}$

K-BP: $\frac{-C_5 R_2 R_5+C_L R_2 R_5 R_L g_m-C_L R_2 R_L+C_L R_5 R_L}{2C_5 R_2 R_5 g_m+4C_5 R_5+C_L R_2 R_5 g_m+2C_L R_2 R_L g_m+C_L R_2+C_L R_5+4C_L R_L}$

Qz: $\frac{\sqrt{2}C_5 C_L R_2 R_5 R_L \sqrt{\frac{R_2 g_m+2}{C_5 C_L R_5 (2R_2 R_L g_m+R_2+4R_L)}}}{C_5 R_2 R_5-C_L R_2 R_5 R_L g_m+C_L R_2 R_L-C_L R_5 R_L}$

Wz: $\sqrt{\frac{-R_2 R_5 g_m+R_2-R_5}{C_5 C_L R_2 R_5 R_L}}$

9.2 INVALID-WZ-2 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1)\,(C_2 R_5 s + R_5 g_m - 1)}{C_2 C_L R_5 s^2 + 4 C_2 C_L R_L s^2 + 4 C_2 s + C_L R_5 g_m s + 2 C_L R_L g_m s + C_L s + 2 g_m}$$

Parameters:

Q: $\frac{\sqrt{2} C_2 C_L \sqrt{\frac{g_m}{C_2 C_L (R_5 + 4R_L)}} (R_5 + 4R_L)}{4C_2 + C_L R_5 g_m + 2 C_L R_L g_m + C_L}$

wo: $\sqrt{2}\sqrt{\frac{g_m}{C_2 C_L (R_5 + 4R_L)}}$

bandwidth: $\frac{4C_2 + C_L R_5 g_m + 2 C_L R_L g_m + C_L}{C_2 C_L (R_5 + 4R_L)}$

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

K-HP: $\frac{R_5 R_L}{R_5 + 4R_L}$

K-BP: $\frac{C_2 R_5 + C_L R_5 R_L g_m - C_L R_L}{4C_2 + C_L R_5 g_m + 2 C_L R_L g_m + C_L}$

Qz: $\frac{\sqrt{2} C_2 C_L R_5 R_L \sqrt{\frac{g_m}{C_2 C_L (R_5 + 4R_L)}}}{C_2 R_5 + C_L R_5 R_L g_m - C_L R_L}$

Wz: $\sqrt{\frac{R_5 g_m - 1}{C_2 C_L R_5 R_L}}$

9.3 INVALID-WZ-3 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2 C_5 R_5 s^2 + C_2 s + C_5 R_5 g_m s - C_5 s + g_m\right)}{C_2 C_5 R_5 s^2 + 4 C_2 C_5 R_L s^2 + C_2 s + C_5 R_5 g_m s + 2 C_5 R_L g_m s + C_5 s + g_m}$$

Parameters:

Q: $\frac{C_2 C_5 \sqrt{\frac{g_m}{C_2 C_5 (R_5 + 4R_L)}} (R_5 + 4R_L)}{C_2 + C_5 R_5 g_m + 2 C_5 R_L g_m + C_5}$

wo: $\sqrt{\frac{g_m}{C_2 C_5 (R_5 + 4R_L)}}$

bandwidth: $\frac{C_2 + C_5 R_5 g_m + 2 C_5 R_L g_m + C_5}{C_2 C_5 (R_5 + 4R_L)}$

K-LP: R_L

K-HP: $\frac{R_5 R_L}{R_5 + 4R_L}$

K-BP: $\frac{R_L (C_2 + C_5 R_5 g_m - C_5)}{C_2 + C_5 R_5 g_m + 2 C_5 R_L g_m + C_5}$

Qz: $\frac{C_2 C_5 R_5 \sqrt{\frac{g_m}{C_2 C_5 (R_5 + 4R_L)}}}{C_2 + C_5 R_5 g_m - C_5}$

Wz: $\sqrt{\frac{g_m}{C_2 C_5 R_5}}$

9.4 INVALID-WZ-4 $Z(s) = \left(\infty,\ \frac{R_2}{C_2 R_2 s+1},\ \infty,\ \infty,\ R_5,\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1)\left(C_2 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5\right)}{C_2 C_L R_2 R_5 s^2 + 4C_2 C_L R_2 R_L s^2 + 4C_2 R_2 s + C_L R_2 R_5 g_m s + 2C_L R_2 R_L g_m s + C_L R_2 s + C_L R_5 s + 4C_L R_L s + 2R_2 g_m + 4}$$

Parameters:

Q: $\frac{\sqrt{2} C_2 C_L R_2 \sqrt{\frac{R_2 g_m+2}{C_2 C_L R_2 (R_5+4R_L)}} (R_5+4R_L)}{4C_2 R_2 + C_L R_2 R_5 g_m + 2C_L R_2 R_L g_m + C_L R_2 + C_L R_5 + 4C_L R_L}$

wo: $\sqrt{2}\sqrt{\frac{R_2 g_m+2}{C_2 C_L R_2 (R_5+4R_L)}}$

bandwidth: $\frac{4C_2 R_2 + C_L R_2 R_5 g_m + 2C_L R_2 R_L g_m + C_L R_2 + C_L R_5 + 4C_L R_L}{C_2 C_L R_2 (R_5+4R_L)}$

K-LP: $\frac{R_2 R_5 g_m - R_2 + R_5}{2(R_2 g_m+2)}$

K-HP: $\frac{R_5 R_L}{R_5+4R_L}$

K-BP: $\frac{C_2 R_2 R_5 + C_L R_2 R_5 R_L g_m - C_L R_2 R_L + C_L R_5 R_L}{4C_2 R_2 + C_L R_2 R_5 g_m + 2C_L R_2 R_L g_m + C_L R_2 + C_L R_5 + 4C_L R_L}$

Qz: $\frac{\sqrt{2} C_2 C_L R_2 R_5 R_L \sqrt{\frac{R_2 g_m+2}{C_2 C_L R_2 (R_5+4R_L)}}}{C_2 R_2 R_5 + C_L R_2 R_5 R_L g_m - C_L R_2 R_L + C_L R_5 R_L}$

Wz: $\sqrt{\frac{R_2 R_5 g_m - R_2 + R_5}{C_2 C_L R_2 R_5 R_L}}$

9.5 INVALID-WZ-5 $Z(s) = \left(\infty,\ \frac{R_2}{C_2 R_2 s+1},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2 C_5 R_2 R_5 s^2 + C_2 R_2 s + C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1\right)}{C_2 C_5 R_2 R_5 s^2 + 4C_2 C_5 R_2 R_L s^2 + C_2 R_2 s + C_5 R_2 R_5 g_m s + 2C_5 R_2 R_L g_m s + C_5 R_2 s + C_5 R_5 s + 4C_5 R_L s + R_2 g_m + 1}$$

Parameters:

Q: $\frac{C_2 C_5 R_2 \sqrt{\frac{R_2 g_m+1}{C_2 C_5 R_2 (R_5+4R_L)}} (R_5+4R_L)}{C_2 R_2 + C_5 R_2 R_5 g_m + 2C_5 R_2 R_L g_m + C_5 R_2 + C_5 R_5 + 4C_5 R_L}$

wo: $\sqrt{\frac{R_2 g_m+1}{C_2 C_5 R_2 (R_5+4R_L)}}$

bandwidth: $\frac{C_2 R_2 + C_5 R_2 R_5 g_m + 2C_5 R_2 R_L g_m + C_5 R_2 + C_5 R_5 + 4C_5 R_L}{C_2 C_5 R_2 (R_5+4R_L)}$

K-LP: R_L

K-HP: $\frac{R_5 R_L}{R_5+4R_L}$
K-BP: $\frac{R_L(C_2R_2+C_5R_2R_5g_m-C_5R_2+C_5R_5)}{C_2R_2+C_5R_2R_5g_m+2C_5R_2R_Lg_m+C_5R_2+C_5R_5+4C_5R_L}$
Qz: $\frac{C_2C_5R_2R_5\sqrt{\frac{R_2g_m+1}{C_2C_5R_2(R_5+4R_L)}}}{C_2R_2+C_5R_2R_5g_m-C_5R_2+C_5R_5}$
Wz: $\sqrt{\frac{R_2g_m+1}{C_2C_5R_2R_5}}$

9.6 INVALID-WZ-6 $Z(s) = \left(\infty,\ R_2+\frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s+1)\left(C_2R_2R_5g_m s - C_2R_2 s + C_2R_5 s + R_5 g_m - 1\right)}{C_2C_LR_2R_5g_m s^2 + 2C_2C_LR_2R_Lg_m s^2 + C_2C_LR_2 s^2 + C_2C_LR_5 s^2 + 4C_2C_LR_L s^2 + 2C_2R_2g_m s + 4C_2 s + C_LR_5g_m s + 2C_LR_Lg_m s + C_L s + 2g_m}$$

Parameters:

Q: $\frac{\sqrt{2}C_2C_L\sqrt{\frac{g_m}{C_2C_L(R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L)}}(R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L)}{2C_2R_2g_m+4C_2+C_LR_5g_m+2C_LR_Lg_m+C_L}$
wo: $\sqrt{2}\sqrt{\frac{g_m}{C_2C_L(R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L)}}$
bandwidth: $\frac{2C_2R_2g_m+4C_2+C_LR_5g_m+2C_LR_Lg_m+C_L}{C_2C_L(R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L)}$
K-LP: $\frac{R_5g_m-1}{2g_m}$
K-HP: $\frac{R_L(R_2R_5g_m-R_2+R_5)}{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}$
K-BP: $\frac{C_2R_2R_5g_m-C_2R_2+C_2R_5+C_LR_5R_Lg_m-C_LR_L}{2C_2R_2g_m+4C_2+C_LR_5g_m+2C_LR_Lg_m+C_L}$
Qz: $\frac{\sqrt{2}C_2C_LR_L\sqrt{\frac{g_m}{C_2C_L(R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L)}}(R_2R_5g_m-R_2+R_5)}{C_2R_2R_5g_m-C_2R_2+C_2R_5+C_LR_5R_Lg_m-C_LR_L}$
Wz: $\sqrt{\frac{R_5g_m-1}{C_2C_LR_L(R_2R_5g_m-R_2+R_5)}}$

9.7 INVALID-WZ-7 $Z(s) = \left(\infty,\ R_2+\frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2C_5R_2s^2 + C_2R_2g_m s + C_2 s - C_5 s + g_m\right)}{2C_2C_5R_2R_Lg_m s^2 + C_2C_5R_2 s^2 + 4C_2C_5R_L s^2 + C_2R_2g_m s + C_2 s + 2C_5R_Lg_m s + C_5 s + g_m}$$

Parameters:

Q: $\frac{C_2C_5\sqrt{\frac{g_m}{C_2C_5(2R_2R_Lg_m+R_2+4R_L)}}(2R_2R_Lg_m+R_2+4R_L)}{C_2R_2g_m+C_2+2C_5R_Lg_m+C_5}$

wo: $\sqrt{\frac{g_m}{C_2C_5(2R_2R_Lg_m+R_2+4R_L)}}$
bandwidth: $\frac{C_2R_2g_m+C_2+2C_5R_Lg_m+C_5}{C_2C_5(2R_2R_Lg_m+R_2+4R_L)}$
K-LP: R_L
K-HP: $-\frac{R_2R_L}{2R_2R_Lg_m+R_2+4R_L}$
K-BP: $\frac{R_L(C_2R_2g_m+C_2-C_5)}{C_2R_2g_m+C_2+2C_5R_Lg_m+C_5}$
Qz: $-\frac{C_2C_5R_2\sqrt{\frac{g_m}{C_2C_5(2R_2R_Lg_m+R_2+4R_L)}}}{C_2R_2g_m+C_2-C_5}$
Wz: $\sqrt{-\frac{g_m}{C_2C_5R_2}}$

9.8 INVALID-WZ-8 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2C_5R_2R_5s^2 + C_2R_2R_5g_ms - C_2R_2s + C_2R_5s - C_5R_5s + R_5g_m - 1\right)}{2C_2C_5R_2R_5R_Lg_ms^2 + C_2C_5R_2R_5s^2 + 4C_2C_5R_5R_Ls^2 + C_2R_2R_5g_ms + 2C_2R_2R_Lg_ms + C_2R_2s + C_2R_5s + 4C_2R_Ls + 2C_5R_5R_Lg_ms + C_5R_5s + R_5g_m + 2R_Lg_m + 1}$$

Parameters:

Q: $\frac{C_2C_5R_5\sqrt{\frac{R_5g_m+2R_Lg_m+1}{C_2C_5R_5(2R_2R_Lg_m+R_2+4R_L)}}(2R_2R_Lg_m+R_2+4R_L)}{C_2R_2R_5g_m+2C_2R_2R_Lg_m+C_2R_2+C_2R_5+4C_2R_L+2C_5R_5R_Lg_m+C_5R_5}$
wo: $\sqrt{\frac{R_5g_m+2R_Lg_m+1}{C_2C_5R_5(2R_2R_Lg_m+R_2+4R_L)}}$
bandwidth: $\frac{C_2R_2R_5g_m+2C_2R_2R_Lg_m+C_2R_2+C_2R_5+4C_2R_L+2C_5R_5R_Lg_m+C_5R_5}{C_2C_5R_5(2R_2R_Lg_m+R_2+4R_L)}$
K-LP: $\frac{R_L(R_5g_m-1)}{R_5g_m+2R_Lg_m+1}$
K-HP: $-\frac{R_2R_L}{2R_2R_Lg_m+R_2+4R_L}$
K-BP: $\frac{R_L(C_2R_2R_5g_m-C_2R_2+C_2R_5-C_5R_5)}{C_2R_2R_5g_m+2C_2R_2R_Lg_m+C_2R_2+C_2R_5+4C_2R_L+2C_5R_5R_Lg_m+C_5R_5}$
Qz: $-\frac{C_2C_5R_2R_5\sqrt{\frac{R_5g_m+2R_Lg_m+1}{C_2C_5R_5(2R_2R_Lg_m+R_2+4R_L)}}}{C_2R_2R_5g_m-C_2R_2+C_2R_5-C_5R_5}$
Wz: $\sqrt{\frac{-R_5g_m+1}{C_2C_5R_2R_5}}$

9.9 INVALID-WZ-9 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5R_2R_5g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_5s^2 + C_2R_2g_ms + C_2s + C_5R_5g_ms - C_5s + g_m\right)}{C_2C_5R_2R_5g_ms^2 + 2C_2C_5R_2R_Lg_ms^2 + C_2C_5R_2s^2 + C_2C_5R_5s^2 + 4C_2C_5R_Ls^2 + C_2R_2g_ms + C_2s + C_5R_5g_ms + 2C_5R_Lg_ms + C_5s + g_m}$$

Parameters:

Q: $\frac{C_2C_5\sqrt{\frac{g_m}{C_2C_5(R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L)}}(R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L)}{C_2R_2g_m+C_2+C_5R_5g_m+2C_5R_Lg_m+C_5}$

wo: $\sqrt{\frac{g_m}{C_2C_5(R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L)}}$

bandwidth: $\frac{C_2R_2g_m+C_2+C_5R_5g_m+2C_5R_Lg_m+C_5}{C_2C_5(R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L)}$

K-LP: R_L

K-HP: $\frac{R_L(R_2R_5g_m-R_2+R_5)}{R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L}$

K-BP: $\frac{R_L(C_2R_2g_m+C_2+C_5R_5g_m-C_5)}{C_2R_2g_m+C_2+C_5R_5g_m+2C_5R_Lg_m+C_5}$

Qz: $\frac{C_2C_5\sqrt{\frac{g_m}{C_2C_5(R_2R_5g_m+2R_2R_Lg_m+R_2+R_5+4R_L)}}(R_2R_5g_m-R_2+R_5)}{C_2R_2g_m+C_2+C_5R_5g_m-C_5}$

Wz: $\sqrt{\frac{g_m}{C_2C_5(R_2R_5g_m-R_2+R_5)}}$

10 INVALID-ORDER

10.1 INVALID-ORDER-1 $Z(s) = (\infty,\ R_2,\ \infty,\ \infty,\ R_5,\ R_L)$

$$H(s) = \frac{R_L\left(R_2R_5g_m - R_2 + R_5\right)}{R_2R_5g_m + 2R_2R_Lg_m + R_2 + R_5 + 4R_L}$$

10.2 INVALID-ORDER-2 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ R_5,\ \frac{1}{C_Ls}\right)$

$$H(s) = \frac{R_2R_5g_m - R_2 + R_5}{C_LR_2R_5g_ms + C_LR_2s + C_LR_5s + 2R_2g_m + 4}$$

10.3 INVALID-ORDER-3 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ R_5,\ \frac{R_L}{C_LR_Ls+1}\right)$

$$H(s) = \frac{R_L\left(R_2R_5g_m - R_2 + R_5\right)}{C_LR_2R_5R_Lg_ms + C_LR_2R_Ls + C_LR_5R_Ls + R_2R_5g_m + 2R_2R_Lg_m + R_2 + R_5 + 4R_L}$$

10.4 INVALID-ORDER-4 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ R_5,\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1)(R_2 R_5 g_m - R_2 + R_5)}{C_L R_2 R_5 g_m s + 2C_L R_2 R_L g_m s + C_L R_2 s + C_L R_5 s + 4C_L R_L s + 2R_2 g_m + 4}$$

10.5 INVALID-ORDER-5 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L(-C_5 R_2 s + R_2 g_m + 1)}{2C_5 R_2 R_L g_m s + C_5 R_2 s + 4C_5 R_L s + R_2 g_m + 1}$$

10.6 INVALID-ORDER-6 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_5 R_2 s + R_2 g_m + 1}{s(C_5 C_L R_2 s + 2C_5 R_2 g_m + 4C_5 + C_L R_2 g_m + C_L)}$$

10.7 INVALID-ORDER-7 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1)(-C_5 R_2 s + R_2 g_m + 1)}{s(2C_5 C_L R_2 R_L g_m s + C_5 C_L R_2 s + 4C_5 C_L R_L s + 2C_5 R_2 g_m + 4C_5 + C_L R_2 g_m + C_L)}$$

10.8 INVALID-ORDER-8 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)(-C_5 R_2 s + R_2 g_m + 1)}{s(2C_5 C_L L_L R_2 g_m s^2 + 4C_5 C_L L_L s^2 + C_5 C_L R_2 s + 2C_5 R_2 g_m + 4C_5 + C_L R_2 g_m + C_L)}$$

10.9 INVALID-ORDER-9 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L s(-C_5 R_2 s + R_2 g_m + 1)}{C_5 C_L L_L R_2 s^3 + 2C_5 L_L R_2 g_m s^2 + 4C_5 L_L s^2 + C_5 R_2 s + C_L L_L R_2 g_m s^2 + C_L L_L s^2 + R_2 g_m + 1}$$

10.10 INVALID-ORDER-10 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(-C_5 R_2 s + R_2 g_m + 1)\left(C_L L_L s^2 + C_L R_L s + 1\right)}{s\left(2C_5 C_L L_L R_2 g_m s^2 + 4C_5 C_L L_L s^2 + 2C_5 C_L R_2 R_L g_m s + C_5 C_L R_2 s + 4C_5 C_L R_L s + 2C_5 R_2 g_m + 4C_5 + C_L R_2 g_m + C_L\right)}$$

10.11 INVALID-ORDER-11 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s\left(-C_5 R_2 s + R_2 g_m + 1\right)}{C_5 C_L L_L R_2 R_L s^3 + 2C_5 L_L R_2 R_L g_m s^2 + C_5 L_L R_2 s^2 + 4C_5 L_L R_L s^2 + C_5 R_2 R_L s + C_L L_L R_2 R_L g_m s^2 + C_L L_L R_L s^2 + L_L R_2 g_m s + L_L s + R_2 R_L g_m + R_L}$$

10.12 INVALID-ORDER-12 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{(-C_5 R_2 s + R_2 g_m + 1)\left(C_L L_L R_L s^2 + L_L s + R_L\right)}{2C_5 C_L L_L R_2 R_L g_m s^3 + C_5 C_L L_L R_2 s^3 + 4C_5 C_L L_L R_L s^3 + 2C_5 L_L R_2 g_m s^2 + 4C_5 L_L s^2 + 2C_5 R_2 R_L g_m s + C_5 R_2 s + 4C_5 R_L s + C_L L_L R_2 g_m s^2 + C_L L_L s^2 + R_2 g_m + 1}$$

10.13 INVALID-ORDER-13 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{R_L\left(C_L L_L s^2 + 1\right)\left(-C_5 R_2 s + R_2 g_m + 1\right)}{2C_5 C_L L_L R_2 R_L g_m s^3 + C_5 C_L L_L R_2 s^3 + 4C_5 C_L L_L R_L s^3 + C_5 C_L R_2 R_L s^2 + 2C_5 R_2 R_L g_m s + C_5 R_2 s + 4C_5 R_L s + C_L L_L R_2 g_m s^2 + C_L L_L s^2 + C_L R_2 R_L g_m s + C_L R_L s + R_2 g_m}$$

10.14 INVALID-ORDER-14 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_5 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5\right)}{2C_5 R_2 R_5 R_L g_m s + C_5 R_2 R_5 s + 4C_5 R_5 R_L s + R_2 R_5 g_m + 2R_2 R_L g_m + R_2 + R_5 + 4R_L}$$

10.15 INVALID-ORDER-15 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{\left(C_L L_L s^2 + 1\right)\left(C_5 R_2 R_5 s - R_2 R_5 g_m + R_2 - R_5\right)}{2C_5 C_L L_L R_2 R_5 g_m s^3 + 4C_5 C_L L_L R_5 s^3 + C_5 C_L R_2 R_5 s^2 + 2C_5 R_2 R_5 g_m s + 4C_5 R_5 s + 2C_L L_L R_2 g_m s^2 + 4C_L L_L s^2 + C_L R_2 R_5 g_m s + C_L R_2 s + C_L R_5 s + 2R_2 g_m + 4}$$

10.16 INVALID-ORDER-16 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(-C_5 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5\right)}{C_5 C_L L_L R_2 R_5 s^3 + 2C_5 L_L R_2 R_5 g_m s^2 + 4C_5 L_L R_5 s^2 + C_5 R_2 R_5 s + C_L L_L R_2 R_5 g_m s^2 + C_L L_L R_2 s^2 + C_L L_L R_5 s^2 + 2L_L R_2 g_m s + 4L_L s + R_2 R_5 g_m + R_2 + R_5}$$

10.17 INVALID-ORDER-17 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_5 R_2 R_5 s - R_2 R_5 g_m + R_2 - R_5\right)}{2C_5 C_L L_L R_2 R_5 g_m s^3 + 4C_5 C_L L_L R_5 s^3 + 2C_5 C_L R_2 R_5 R_L g_m s^2 + C_5 C_L R_2 R_5 s^2 + 4C_5 C_L R_5 R_L s^2 + 2C_5 R_2 R_5 g_m s + 4C_5 R_5 s + 2C_L L_L R_2 g_m s^2 + 4C_L L_L s^2 + C_L R_2 R_5 g_m s +}$$

10.18 INVALID-ORDER-18 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s\left(-C_5 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5\right)}{C_5 C_L L_L R_2 R_5 R_L s^3 + 2C_5 L_L R_2 R_5 R_L g_m s^2 + C_5 L_L R_2 R_5 s^2 + 4C_5 L_L R_5 R_L s^2 + C_5 R_2 R_5 R_L s + C_L L_L R_2 R_5 R_L g_m s^2 + C_L L_L R_2 R_L s^2 + C_L L_L R_5 R_L s^2 + L_L R_2 R_5 g_m s + 2L_L}$$

10.19 INVALID-ORDER-19 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = -\frac{\left(C_L L_L R_L s^2 + L_L s + R_L\right)\left(C_5 R_2 R_5 s - R_2 R_5 g_m + R_2\right.}{2C_5 C_L L_L R_2 R_5 R_L g_m s^3 + C_5 C_L L_L R_2 R_5 s^3 + 4C_5 C_L L_L R_5 R_L s^3 + 2C_5 L_L R_2 R_5 g_m s^2 + 4C_5 L_L R_5 s^2 + 2C_5 R_2 R_5 R_L g_m s + C_5 R_2 R_5 s + 4C_5 R_5 R_L s + C_L L_L R_2 R_5 g_m s^2 + 2C}$$

10.20 INVALID-ORDER-20 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = -\frac{R_L\left(C_L L_L s^2+1\right)\left(C_5 R_2 R_5 s - R_2 R_5 g_m + R_2\right.}{2C_5 C_L L_L R_2 R_5 R_L g_m s^3 + C_5 C_L L_L R_2 R_5 s^3 + 4C_5 C_L L_L R_5 R_L s^3 + C_5 C_L R_2 R_5 R_L s^2 + 2C_5 R_2 R_5 R_L g_m s + C_5 R_2 R_5 s + 4C_5 R_5 R_L s + C_L L_L R_2 R_5 g_m s^2 + 2C_L L_L R_2 R_L g_m s^2}$$

10.21 INVALID-ORDER-21 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1\right)}{C_5 R_2 R_5 g_m s + 2C_5 R_2 R_L g_m s + C_5 R_2 s + C_5 R_5 s + 4C_5 R_L s + R_2 g_m + 1}$$

10.22 INVALID-ORDER-22 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1}{s\left(C_5 C_L R_2 R_5 g_m s + C_5 C_L R_2 s + C_5 C_L R_5 s + 2C_5 R_2 g_m + 4C_5 + C_L R_2 g_m + C_L\right)}$$

10.23 INVALID-ORDER-23 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L R_L s+1\right)\left(C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1\right)}{s\left(C_5 C_L R_2 R_5 g_m s + 2C_5 C_L R_2 R_L g_m s + C_5 C_L R_2 s + C_5 C_L R_5 s + 4C_5 C_L R_L s + 2C_5 R_2 g_m + 4C_5 + C_L R_2 g_m + C_L\right)}$$

10.24 INVALID-ORDER-24 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ L_L s+\frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2+1\right)\left(C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1\right)}{s\left(2C_5 C_L L_L R_2 g_m s^2 + 4C_5 C_L L_L s^2 + C_5 C_L R_2 R_5 g_m s + C_5 C_L R_2 s + C_5 C_L R_5 s + 2C_5 R_2 g_m + 4C_5 + C_L R_2 g_m + C_L\right)}$$

10.25 INVALID-ORDER-25 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1\right)}{C_5 C_L L_L R_2 R_5 g_m s^3 + C_5 C_L L_L R_2 s^3 + C_5 C_L L_L R_5 s^3 + 2C_5 L_L R_2 g_m s^2 + 4C_5 L_L s^2 + C_5 R_2 R_5 g_m s + C_5 R_2 s + C_5 R_5 s + C_L L_L R_2 g_m s^2 + C_L L_L s^2 + R_2 g_m + 1}$$

10.26 INVALID-ORDER-26 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1\right)}{s\left(2C_5 C_L L_L R_2 g_m s^2 + 4C_5 C_L L_L s^2 + C_5 C_L R_2 R_5 g_m s + 2C_5 C_L R_2 R_L g_m s + C_5 C_L R_2 s + C_5 C_L R_5 s + 4C_5 C_L R_L s + 2C_5 R_2 g_m + 4C_5 + C_L R_2 g_m + C_L\right)}$$

10.27 INVALID-ORDER-27 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s\left(C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1\right)}{C_5 C_L L_L R_2 R_5 R_L g_m s^3 + C_5 C_L L_L R_2 R_L s^3 + C_5 C_L L_L R_5 R_L s^3 + C_5 L_L R_2 R_5 g_m s^2 + 2C_5 L_L R_2 R_L g_m s^2 + C_5 L_L R_2 s^2 + C_5 L_L R_5 s^2 + 4C_5 L_L R_L s^2 + C_5 R_2 R_5 R_L g_m s + C_5 R_2 R$$

10.28 INVALID-ORDER-28 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{\left(C_L L_L R_L s^2 + L_L s + R_L\right)\left(C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1\right)}{C_5 C_L L_L R_2 R_5 g_m s^3 + 2C_5 C_L L_L R_2 R_L g_m s^3 + C_5 C_L L_L R_2 s^3 + C_5 C_L L_L R_5 s^3 + 4C_5 C_L L_L R_L s^3 + 2C_5 L_L R_2 g_m s^2 + 4C_5 L_L s^2 + C_5 R_2 R_5 g_m s + 2C_5 R_2 R_L g_m s + C_5 R_2 s + C_5 R$$

10.29 INVALID-ORDER-29 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{R_L\left(C_L L_L s^2 + 1\right)\left(C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1\right)}{C_5 C_L L_L R_2 R_5 g_m s^3 + 2C_5 C_L L_L R_2 R_L g_m s^3 + C_5 C_L L_L R_2 s^3 + C_5 C_L L_L R_5 s^3 + 4C_5 C_L L_L R_L s^3 + C_5 C_L R_2 R_5 R_L g_m s^2 + C_5 C_L R_2 R_L s^2 + C_5 C_L R_5 R_L s^2 + C_5 R_2 R_5 g_m s + 2C_5$$

10.30 INVALID-ORDER-30 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 - C_5 R_2 s + R_2 g_m + 1}{s\left(C_5 C_L L_5 R_2 g_m s^2 + C_5 C_L L_5 s^2 + C_5 C_L R_2 s + 2C_5 R_2 g_m + 4C_5 + C_L R_2 g_m + C_L\right)}$$

10.31 INVALID-ORDER-31 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L \left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 - C_5 R_2 s + R_2 g_m + 1\right)}{C_5 C_L L_5 R_2 R_L g_m s^3 + C_5 C_L L_5 R_L s^3 + C_5 C_L R_2 R_L s^2 + C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + 2C_5 R_2 R_L g_m s + C_5 R_2 s + 4C_5 R_L s + C_L R_2 R_L g_m s + C_L R_L s + R_2 g_m + 1}$$

10.32 INVALID-ORDER-32 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1)\left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 - C_5 R_2 s + R_2 g_m + 1\right)}{s\left(C_5 C_L L_5 R_2 g_m s^2 + C_5 C_L L_5 s^2 + 2C_5 C_L R_2 R_L g_m s + C_5 C_L R_2 s + 4C_5 C_L R_L s + 2C_5 R_2 g_m + 4C_5 + C_L R_2 g_m + C_L\right)}$$

10.33 INVALID-ORDER-33 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 - C_5 R_2 s + R_2 g_m + 1\right)}{s\left(C_5 C_L L_5 R_2 g_m s^2 + C_5 C_L L_5 s^2 + 2C_5 C_L L_L R_2 g_m s^2 + 4C_5 C_L L_L s^2 + C_5 C_L R_2 s + 2C_5 R_2 g_m + 4C_5 + C_L R_2 g_m + C_L\right)}$$

10.34 INVALID-ORDER-34 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s \left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 - C_5 R_2 s + R_2 g_m + 1\right)}{C_5 C_L L_5 L_L R_2 g_m s^4 + C_5 C_L L_5 L_L s^4 + C_5 C_L L_L R_2 s^3 + C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + 2C_5 L_L R_2 g_m s^2 + 4C_5 L_L s^2 + C_5 R_2 s + C_L L_L R_2 g_m s^2 + C_L L_L s^2 + R_2 g_m + 1}$$

10.35 INVALID-ORDER-35 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 - C_5 R_2 s + R_2 g_m + 1\right)}{s\left(C_5 C_L L_5 R_2 g_m s^2 + C_5 C_L L_5 s^2 + 2C_5 C_L L_L R_2 g_m s^2 + 4C_5 C_L L_L s^2 + 2C_5 C_L R_2 R_L g_m s + C_5 C_L R_2 s + 4C_5 C_L R_L s + 2C_5 R_2 g_m + 4C_5 + C_L R_2 g_m + C_L\right)}$$

10.36 INVALID-ORDER-36 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s \left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 - C_5 R_2 s + R_2 g_m + 1\right)}{C_5 C_L L_5 L_L R_2 R_L g_m s^4 + C_5 C_L L_5 L_L R_L s^4 + C_5 C_L L_L R_2 R_L s^3 + C_5 L_5 L_L R_2 g_m s^3 + C_5 L_5 L_L s^3 + C_5 L_5 R_2 R_L g_m s^2 + C_5 L_5 R_L s^2 + 2 C_5 L_L R_2 R_L g_m s^2 + C_5 L_L R_2 s^2 + 4 C_5 L_L R}$$

10.37 INVALID-ORDER-37 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{\left(C_L L_L R_L s^2 + L_L s + R_L\right)\left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 - C_5 R_2 s + R_2 g_m + 1\right)}{C_5 C_L L_5 L_L R_2 g_m s^4 + C_5 C_L L_5 L_L L_L s^4 + 2 C_5 C_L L_L R_2 R_L g_m s^3 + C_5 C_L L_L R_2 s^3 + 4 C_5 C_L L_L R_L s^3 + C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + 2 C_5 L_L R_2 g_m s^2 + 4 C_5 L_L s^2 + 2 C_5 R_2 R_L g_m s + C_5}$$

10.38 INVALID-ORDER-38 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{R_L \left(C_L L_L s^2 + 1\right)\left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 - C_5 R_2 s + R_2 g_m + 1\right.}{C_5 C_L L_5 L_L R_2 g_m s^4 + C_5 C_L L_5 L_L L_L s^4 + C_5 C_L L_5 R_2 R_L g_m s^3 + C_5 C_L L_5 R_L s^3 + 2 C_5 C_L L_L R_2 R_L g_m s^3 + C_5 C_L L_L R_2 s^3 + 4 C_5 C_L L_L R_L s^3 + C_5 C_L R_2 R_L s^2 + C_5 L_5 R_2 g_m s^2 + C_5 L}$$

10.39 INVALID-ORDER-39 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_5 L_5 R_2 s^2 + L_5 R_2 g_m s + L_5 s - R_2}{C_5 C_L L_5 R_2 s^3 + 2 C_5 L_5 R_2 g_m s^2 + 4 C_5 L_5 s^2 + C_L L_5 R_2 g_m s^2 + C_L L_5 s^2 + C_L R_2 s + 2 R_2 g_m + 4}$$

10.40 INVALID-ORDER-40 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{R_L \left(-C_5 L_5 R_2 s^2 + L_5 R_2 g_m s + L_5 s - R_2\right)}{C_5 C_L L_5 R_2 R_L s^3 + 2 C_5 L_5 R_2 R_L g_m s^2 + C_5 L_5 R_2 s^2 + 4 C_5 L_5 R_L s^2 + C_L L_5 R_2 R_L g_m s^2 + C_L L_5 R_L s^2 + C_L R_2 R_L s + L_5 R_2 g_m s + L_5 s + 2 R_2 R_L g_m + R_2 + 4 R_L}$$

10.41 INVALID-ORDER-41 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{(C_L R_L s + 1)\left(C_5 L_5 R_2 s^2 - L_5 R_2 g_m s - L_5 s + R_2\right)}{2C_5 C_L L_5 R_2 R_L g_m s^3 + C_5 C_L L_5 R_2 s^3 + 4C_5 C_L L_5 R_L s^3 + 2C_5 L_5 R_2 g_m s^2 + 4C_5 L_5 s^2 + C_L L_5 R_2 g_m s^2 + C_L L_5 s^2 + 2C_L R_2 R_L g_m s + C_L R_2 s + 4C_L R_L s + 2R_2 g_m + 4}$$

10.42 INVALID-ORDER-42 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{\left(C_L L_L s^2 + 1\right)\left(C_5 L_5 R_2 s^2 - L_5 R_2 g_m s - L_5 s + R_2\right)}{2C_5 C_L L_5 L_L R_2 g_m s^4 + 4C_5 C_L L_5 L_L s^4 + C_5 C_L L_5 R_2 s^3 + 2C_5 L_5 R_2 g_m s^2 + 4C_5 L_5 s^2 + C_L L_5 R_2 g_m s^2 + C_L L_5 s^2 + 2C_L L_L R_2 g_m s^2 + 4C_L L_L s^2 + C_L R_2 s + 2R_2 g_m + 4}$$

10.43 INVALID-ORDER-43 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(-C_5 L_5 R_2 s^2 + L_5 R_2 g_m s + L_5 s - R_2\right)}{C_5 C_L L_5 L_L R_2 s^4 + 2C_5 L_5 L_L R_2 g_m s^3 + 4C_5 L_5 L_L s^3 + C_5 L_5 R_2 s^2 + C_L L_5 L_L R_2 g_m s^3 + C_L L_5 L_L s^3 + C_L L_L R_2 s^2 + L_5 R_2 g_m s + L_5 s + 2L_L R_2 g_m s + 4L_L s + R_2}$$

10.44 INVALID-ORDER-44 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_5 L_5 R_2 s^2 - L_5 R_2 g_m s - L_5 s + R_2\right)}{2C_5 C_L L_5 L_L R_2 g_m s^4 + 4C_5 C_L L_5 L_L s^4 + 2C_5 C_L L_5 R_2 R_L g_m s^3 + C_5 C_L L_5 R_2 s^3 + 4C_5 C_L L_5 R_L s^3 + 2C_5 L_5 R_2 g_m s^2 + 4C_5 L_5 s^2 + C_L L_5 R_2 g_m s^2 + C_L L_5 s^2 + 2C_L L_L R_2 g_m s^2 +$$

10.45 INVALID-ORDER-45 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s\left(-C_5 L_5 R_2 s^2 + L_5 R_2 g_m s + L_5 s - R_2\right)}{C_5 C_L L_5 L_L R_2 R_L s^4 + 2C_5 L_5 L_L R_2 R_L g_m s^3 + C_5 L_5 L_L R_2 s^3 + 4C_5 L_5 L_L R_L s^3 + C_5 L_5 R_2 R_L s^2 + C_L L_5 L_L R_2 R_L g_m s^3 + C_L L_5 L_L R_L s^3 + C_L L_L R_2 R_L s^2 + L_5 L_L R_2 g_m s^2 + L_5$$

10.46 INVALID-ORDER-46 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = -\frac{\left(C_L L_L R_L s^2 + L_L s + R_L\right)\left(C_5 L_5 R_2 s^2 - L_5 R_2 g_m s - \right.}{2C_5 C_L L_5 L_L R_2 R_L g_m s^4 + C_5 C_L L_5 L_L R_2 s^4 + 4C_5 C_L L_5 L_L R_L s^4 + 2C_5 L_5 L_L R_2 g_m s^3 + 4C_5 L_5 L_L s^3 + 2C_5 L_5 R_2 R_L g_m s^2 + C_5 L_5 R_2 s^2 + 4C_5 L_5 R_L s^2 + C_L L_5 L_L R_2 g_m s^3 + C}$$

10.47 INVALID-ORDER-47 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = -\frac{R_L\left(C_L L_L s^2 + 1\right)\left(C_5 L_5 R_2 s^2 - L_5 R_2 g_m s - \right.}{2C_5 C_L L_5 L_L R_2 R_L g_m s^4 + C_5 C_L L_5 L_L R_2 s^4 + 4C_5 C_L L_5 L_L R_L s^4 + C_5 C_L L_5 R_2 R_L s^3 + 2C_5 L_5 R_2 R_L g_m s^2 + C_5 L_5 R_2 s^2 + 4C_5 L_5 R_L s^2 + C_L L_5 L_L R_2 g_m s^3 + C_L L_5 L_L s^3 + C_L}$$

10.48 INVALID-ORDER-48 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1}{s\left(C_5 C_L L_5 R_2 g_m s^2 + C_5 C_L L_5 s^2 + C_5 C_L R_2 R_5 g_m s + C_5 C_L R_2 s + C_5 C_L R_5 s + 2C_5 R_2 g_m + 4C_5 + C_L R_2 g_m + C_L\right)}$$

10.49 INVALID-ORDER-49 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1\right)}{C_5 C_L L_5 R_2 R_L g_m s^3 + C_5 C_L L_5 R_L s^3 + C_5 C_L R_2 R_5 R_L g_m s^2 + C_5 C_L R_2 R_L s^2 + C_5 C_L R_5 R_L s^2 + C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 R_5 g_m s + 2C_5 R_2 R_L g_m s + C_5 R_2 s + C_5 R_5 s +}$$

10.50 INVALID-ORDER-50 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L R_L s + 1\right)\left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1\right)}{s\left(C_5 C_L L_5 R_2 g_m s^2 + C_5 C_L L_5 s^2 + C_5 C_L R_2 R_5 g_m s + 2C_5 C_L R_2 R_L g_m s + C_5 C_L R_2 s + C_5 C_L R_5 s + 4C_5 C_L R_L s + 2C_5 R_2 g_m + 4C_5 + C_L R_2 g_m + C_L\right)}$$

10.51 INVALID-ORDER-51 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1\right)}{s\left(C_5 C_L L_5 R_2 g_m s^2 + C_5 C_L L_5 s^2 + 2C_5 C_L L_L R_2 g_m s^2 + 4C_5 C_L L_L s^2 + C_5 C_L R_2 R_5 g_m s + C_5 C_L R_2 s + C_5 C_L R_5 s + 2C_5 R_2 g_m + 4C_5 + C_L R_2 g_m + C_L\right)}$$

10.52 INVALID-ORDER-52 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L s\left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1\right)}{C_5 C_L L_5 L_L R_2 g_m s^4 + C_5 C_L L_5 L_L s^4 + C_5 C_L L_L R_2 R_5 g_m s^3 + C_5 C_L L_L R_2 s^3 + C_5 C_L L_L R_5 s^3 + C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + 2C_5 L_L R_2 g_m s^2 + 4C_5 L_L s^2 + C_5 R_2 R_5 g_m s + C_5 R_2 s}$$

10.53 INVALID-ORDER-53 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1\right)}{s\left(C_5 C_L L_5 R_2 g_m s^2 + C_5 C_L L_5 s^2 + 2C_5 C_L L_L R_2 g_m s^2 + 4C_5 C_L L_L s^2 + C_5 C_L R_2 R_5 g_m s + 2C_5 C_L R_2 R_L g_m s + C_5 C_L R_2 s + C_5 C_L R_5 s + 4C_5 C_L R_L s + 2C_5 R_2 g_m + 4C_5 + C_L R_2\right.}$$

10.54 INVALID-ORDER-54 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s\left(C_5 L_5 R_2 g_m s^2 + C_5\right.}{C_5 C_L L_5 L_L R_2 R_L g_m s^4 + C_5 C_L L_5 L_L R_L s^4 + C_5 C_L L_L R_2 R_5 R_L g_m s^3 + C_5 C_L L_L R_2 R_L s^3 + C_5 C_L L_L R_5 R_L s^3 + C_5 L_5 L_L R_2 g_m s^3 + C_5 L_5 L_L s^3 + C_5 L_5 R_2 R_L g_m s^2 + C_5 L_5 R_L s^2}$$

10.55 INVALID-ORDER-55 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{\left(C_L L_L R_L s^2 + L_L s + R_L\right)\left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 R_5 g_m s - C_5 R_2 s\right.}{C_5 C_L L_5 L_L R_2 g_m s^4 + C_5 C_L L_5 L_L s^4 + C_5 C_L L_L R_2 R_5 g_m s^3 + 2C_5 C_L L_L R_2 R_L g_m s^3 + C_5 C_L L_L R_2 s^3 + C_5 C_L L_L R_5 s^3 + 4C_5 C_L L_L R_L s^3 + C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + 2C_5 L_L R_2}$$

10.56 INVALID-ORDER-56 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{R_L\left(C_L L_L s^2+1\right)\left(C_5 L_5 R$$
$$C_5 C_L L_5 L_L R_2 g_m s^4 + C_5 C_L L_5 L_L s^4 + C_5 C_L L_5 R_2 R_L g_m s^3 + C_5 C_L L_5 R_L s^3 + C_5 C_L L_L R_2 R_5 g_m s^3 + 2C_5 C_L L_L R_2 R_L g_m s^3 + C_5 C_L L_L R_2 s^3 + C_5 C_L L_L R_5 s^3 + 4C_5 C_L L_L R_L s^3$$

10.57 INVALID-ORDER-57 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_5 L_5 R_2 R_5 s^2 + L_5 R_2 R_5 g_m s - L_5 R_2 s + L_5 R_5 s - R_2 R_5}{C_5 C_L L_5 R_2 R_5 s^3 + 2C_5 L_5 R_2 R_5 g_m s^2 + 4C_5 L_5 R_5 s^2 + C_L L_5 R_2 R_5 g_m s^2 + C_L L_5 R_2 s^2 + C_L L_5 R_5 s^2 + C_L R_2 R_5 s + 2L_5 R_2 g_m s + 4L_5 s + 2R_2 R_5 g_m + 4R_5}$$

10.58 INVALID-ORDER-58 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{R_L\left(-C_5 L_5 R_2 R_5 s^2 + L_5 R_2 R_5 g_m s - L_5 R_2 s + L_5 R_5 s - R_2 R_5\right)}{C_5 C_L L_5 R_2 R_5 R_L s^3 + 2C_5 L_5 R_2 R_5 R_L g_m s^2 + C_5 L_5 R_2 R_5 s^2 + 4C_5 L_5 R_5 R_L s^2 + C_L L_5 R_2 R_5 R_L g_m s^2 + C_L L_5 R_2 R_L s^2 + C_L L_5 R_5 R_L s^2 + C_L R_2 R_5 R_L s + L_5 R_2 R_5 g_m s + 2L_5 R_2$$

10.59 INVALID-ORDER-59 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{\left(C_L R_L s+1\right)\left(C_5 L_5 R_2 R_5 s^2 - L_5 R_2 R_5 g_m s + L_5 R_2 s - L_5 R_5 s + R_2 R_5\right)}{2C_5 C_L L_5 R_2 R_5 R_L g_m s^3 + C_5 C_L L_5 R_2 R_5 s^3 + 4C_5 C_L L_5 R_5 R_L s^3 + 2C_5 L_5 R_2 R_5 g_m s^2 + 4C_5 L_5 R_5 s^2 + C_L L_5 R_2 R_5 g_m s^2 + 2C_L L_5 R_2 R_L g_m s^2 + C_L L_5 R_2 s^2 + C_L L_5 R_5 s^2 + 4C$$

10.60 INVALID-ORDER-60 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{\left(C_L L_L s^2+1\right)\left(C_5 L_5 R_2 R_5 s^2 - L_5 R_2 R_5 g_m s + L_5 R_2 s - L_5 R_5 s + R_2 R_5\right)}{2C_5 C_L L_5 L_L R_2 R_5 g_m s^4 + 4C_5 C_L L_5 L_L R_5 s^4 + C_5 C_L L_5 R_2 R_5 s^3 + 2C_5 L_5 R_2 R_5 g_m s^2 + 4C_5 L_5 R_5 s^2 + 2C_L L_5 L_L R_2 g_m s^3 + 4C_L L_5 L_L s^3 + C_L L_5 R_2 R_5 g_m s^2 + C_L L_5 R_2 s^2 + C$$

10.61 INVALID-ORDER-61 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(-C_5 L_5 R_2 R_5 s^2 + L_5 R_2 R_5 g_m s - L_5 R_2 s + L_5 R_5 s - R_2 R_5\right)}{C_5 C_L L_5 L_L R_2 R_5 s^4 + 2C_5 L_5 L_L R_2 R_5 g_m s^3 + 4C_5 L_5 L_L R_5 s^3 + C_5 L_5 R_2 R_5 s^2 + C_L L_5 L_L R_2 R_5 g_m s^3 + C_L L_5 L_L R_2 s^3 + C_L L_5 L_L R_5 s^3 + C_L L_L R_2 R_5 s^2 + 2L_5 L_L R_2 g_m s^2 + 4L_5}$$

10.62 INVALID-ORDER-62 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{\left(C_L L_L s^2 + C_L R_L s\right.}{2C_5 C_L L_5 L_L R_2 R_5 g_m s^4 + 4C_5 C_L L_5 L_L R_5 s^4 + 2C_5 C_L L_5 R_2 R_5 R_L g_m s^3 + C_5 C_L L_5 R_2 R_5 s^3 + 4C_5 C_L L_5 R_5 R_L s^3 + 2C_5 L_5 R_2 R_5 g_m s^2 + 4C_5 L_5 R_5 s^2 + 2C_L L_5 L_L R_2 g_m s^3 + 4C}$$

10.63 INVALID-ORDER-63 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s\left(-C_5 L_5 R_2\right.}{C_5 C_L L_5 L_L R_2 R_5 R_L s^4 + 2C_5 L_5 L_L R_2 R_5 R_L g_m s^3 + C_5 L_5 L_L R_2 R_5 s^3 + 4C_5 L_5 L_L R_5 R_L s^3 + C_5 L_5 R_2 R_5 R_L s^2 + C_L L_5 L_L R_2 R_5 R_L g_m s^3 + C_L L_5 L_L R_2 R_L s^3 + C_L L_5 L_L R_5 R_L s^3}$$

10.64 INVALID-ORDER-64 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = -\frac{}{2C_5 C_L L_5 L_L R_2 R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_2 R_5 s^4 + 4C_5 C_L L_5 L_L R_5 R_L s^4 + 2C_5 L_5 L_L R_2 R_5 g_m s^3 + 4C_5 L_5 L_L R_5 s^3 + 2C_5 L_5 R_2 R_5 R_L g_m s^2 + C_5 L_5 R_2 R_5 s^2 + 4C_5 L_5 R_5 R_L s^2 +}$$

10.65 INVALID-ORDER-65 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = -\frac{}{2C_5 C_L L_5 L_L R_2 R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_2 R_5 s^4 + 4C_5 C_L L_5 L_L R_5 R_L s^4 + C_5 C_L L_5 R_2 R_5 R_L s^3 + 2C_5 L_5 R_2 R_5 R_L g_m s^2 + C_5 L_5 R_2 R_5 s^2 + 4C_5 L_5 R_5 R_L s^2 + C_L L_5 L_L R_2 R_5 g_m}$$

10.66 INVALID-ORDER-66 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_5 s^2 + L_5 R_2 g_m s + L_5 s + R_2 R_5 g_m - R_2 + R_5}{C_5 C_L L_5 R_2 R_5 g_m s^3 + C_5 C_L L_5 R_2 s^3 + C_5 C_L L_5 R_5 s^3 + 2C_5 L_5 R_2 g_m s^2 + 4C_5 L_5 s^2 + C_L L_5 R_2 g_m s^2 + C_L L_5 s^2 + C_L R_2 R_5 g_m s + C_L R_2 s + C_L R_5 s + 2R_2 g_m + 4}$$

10.67 INVALID-ORDER-67 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L \left(C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_5 s^2 + L_5 R_2 g_m s + L_5 s + R_2 R_5 g_m\right.}{C_5 C_L L_5 R_2 R_5 R_L g_m s^3 + C_5 C_L L_5 R_2 R_L s^3 + C_5 C_L L_5 R_5 R_L s^3 + C_5 L_5 R_2 R_5 g_m s^2 + 2C_5 L_5 R_2 R_L g_m s^2 + C_5 L_5 R_2 s^2 + C_5 L_5 R_5 s^2 + 4C_5 L_5 R_L s^2 + C_L L_5 R_2 R_L g_m s^2 + C_L L_5 R_L}$$

10.68 INVALID-ORDER-68 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1)\left(C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_5 s^2 + L_5 R_2 g_m s + L_5 s + R_2 R_5 g_m - R_2 + R_5\right)}{C_5 C_L L_5 R_2 R_5 g_m s^3 + 2C_5 C_L L_5 R_2 R_L g_m s^3 + C_5 C_L L_5 R_2 s^3 + C_5 C_L L_5 R_5 s^3 + 4C_5 C_L L_5 R_L s^3 + 2C_5 L_5 R_2 g_m s^2 + 4C_5 L_5 s^2 + C_L L_5 R_2 g_m s^2 + C_L L_5 s^2 + C_L R_2 R_5 g_m s + 2C_L}$$

10.69 INVALID-ORDER-69 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_5 s^2 + L_5 R_2 g_m s + L_5 s + R_2 R_5 g_m - R_2 + R_5\right)}{2C_5 C_L L_5 L_L R_2 g_m s^4 + 4C_5 C_L L_5 L_L s^4 + C_5 C_L L_5 R_2 R_5 g_m s^3 + C_5 C_L L_5 R_2 s^3 + C_5 C_L L_5 R_5 s^3 + 2C_5 L_5 R_2 g_m s^2 + 4C_5 L_5 s^2 + C_L L_5 R_2 g_m s^2 + C_L L_5 s^2 + 2C_L L_L R_2 g_m s^2 + 4C}$$

10.70 INVALID-ORDER-70 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s \left(C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_5 s^2 + L_5 R_2 g_m s + L_5 s + R_2 R_5\right.}{C_5 C_L L_5 L_L R_2 R_5 g_m s^4 + C_5 C_L L_5 L_L R_2 s^4 + C_5 C_L L_5 L_L R_5 s^4 + 2C_5 L_5 L_L R_2 g_m s^3 + 4C_5 L_5 L_L s^3 + C_5 L_5 R_2 R_5 g_m s^2 + C_5 L_5 R_2 s^2 + C_5 L_5 R_5 s^2 + C_L L_5 L_L R_2 g_m s^3 + C_L L_5 L_L s}$$

10.71 INVALID-ORDER-71 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_5 s^2 + L_5 R_2 g_m\right.}{2C_5 C_L L_5 L_L R_2 g_m s^4 + 4C_5 C_L L_5 L_L s^4 + C_5 C_L L_5 R_2 R_5 g_m s^3 + 2C_5 C_L L_5 R_2 R_L g_m s^3 + C_5 C_L L_5 R_2 s^3 + C_5 C_L L_5 R_5 s^3 + 4C_5 C_L L_5 R_L s^3 + 2C_5 L_5 R_2 g_m s^2 + 4C_5 L_5 s^2 + C_L L_5 R}$$

10.72 INVALID-ORDER-72 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_5C_LL_5L_LR_2R_5R_Lg_ms^4 + C_5C_LL_5L_LR_2R_Ls^4 + C_5C_LL_5L_LR_5R_Ls^4 + C_5L_5L_LR_2R_5g_ms^3 + 2C_5L_5L_LR_2R_Lg_ms^3 + C_5L_5L_LR_2s^3 + C_5L_5L_LR_5s^3 + 4C_5L_5L_LR_Ls^3 + C_5L}$$

10.73 INVALID-ORDER-73 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{\left(C_LL_LR_Ls^2 + L\right.}{C_5C_LL_5L_LR_2R_5g_ms^4 + 2C_5C_LL_5L_LR_2R_Lg_ms^4 + C_5C_LL_5L_LR_2s^4 + C_5C_LL_5L_LR_5s^4 + 4C_5C_LL_5L_LR_Ls^4 + 2C_5L_5L_LR_2g_ms^3 + 4C_5L_5L_Ls^3 + C_5L_5R_2R_5g_ms^2 + 2C_5L_5R}$$

10.74 INVALID-ORDER-74 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_5C_LL_5L_LR_2R_5g_ms^4 + 2C_5C_LL_5L_LR_2R_Lg_ms^4 + C_5C_LL_5L_LR_2s^4 + C_5C_LL_5L_LR_5s^4 + 4C_5C_LL_5L_LR_Ls^4 + C_5C_LL_5R_2R_5R_Lg_ms^3 + C_5C_LL_5R_2R_Ls^3 + C_5C_LL_5R_5R_Ls^3}$$

10.75 INVALID-ORDER-75 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_5L_5R_2R_5g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_5s^2 - C_5R_2R_5s + R_2R_5g_m - R_2 + R_5}{C_5C_LL_5R_2R_5g_ms^3 + C_5C_LL_5R_2s^3 + C_5C_LL_5R_5s^3 + C_5C_LR_2R_5s^2 + 2C_5L_5R_2g_ms^2 + 4C_5L_5s^2 + 2C_5R_2R_5g_ms + 4C_5R_5s + C_LR_2R_5g_ms + C_LR_2s + C_LR_5s + 2R_2g_m + 4}$$

10.76 INVALID-ORDER-76 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(C_5L_5R_2R_5g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_5s^2 - C_5R_2R_5s + R_2R\right.}{C_5C_LL_5R_2R_5R_Lg_ms^3 + C_5C_LL_5R_2R_Ls^3 + C_5C_LL_5R_5R_Ls^3 + C_5C_LR_2R_5R_Ls^2 + C_5L_5R_2R_5g_ms^2 + 2C_5L_5R_2R_Lg_ms^2 + C_5L_5R_2s^2 + C_5L_5R_5s^2 + 4C_5L_5R_Ls^2 + 2C_5R_2R}$$

10.77 INVALID-ORDER-77 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s+1)\left(C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_5 s^2 - C_5 R_2 R_5 s + R_2 R\right.}{C_5 C_L L_5 R_2 R_5 g_m s^3 + 2C_5 C_L L_5 R_2 R_L g_m s^3 + C_5 C_L L_5 R_2 s^3 + C_5 C_L L_5 R_5 s^3 + 4C_5 C_L L_5 R_L s^3 + 2C_5 C_L R_2 R_5 R_L g_m s^2 + C_5 C_L R_2 R_5 s^2 + 4C_5 C_L R_5 R_L s^2 + 2C_5 L_5 R_2 g_m s^2 + 4}$$

10.78 INVALID-ORDER-78 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ L_L s+\frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2+1\right)\left(C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_5 s^2 - C_5 R_2 R_5 s + R_2\right.}{2C_5 C_L L_5 L_L R_2 g_m s^4 + 4C_5 C_L L_5 L_L s^4 + C_5 C_L L_5 R_2 R_5 g_m s^3 + C_5 C_L L_5 R_2 s^3 + C_5 C_L L_5 R_5 s^3 + 2C_5 C_L L_L R_2 R_5 g_m s^3 + 4C_5 C_L L_L R_5 s^3 + C_5 C_L R_2 R_5 s^2 + 2C_5 L_5 R_2 g_m s^2 + 4C}$$

10.79 INVALID-ORDER-79 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_5 s^2 - C_5 R_2 R_5 s + R\right.}{C_5 C_L L_5 L_L R_2 R_5 g_m s^4 + C_5 C_L L_5 L_L R_2 s^4 + C_5 C_L L_5 L_L R_5 s^4 + C_5 C_L L_L R_2 R_5 s^3 + 2C_5 L_5 L_L R_2 g_m s^3 + 4C_5 L_5 L_L s^3 + C_5 L_5 R_2 R_5 g_m s^2 + C_5 L_5 R_2 s^2 + C_5 L_5 R_5 s^2 + 2C_5 L_L R_2}$$

10.80 INVALID-ORDER-80 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ L_L s+R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2+C_L R_L s+1\right)\left(\right.}{2C_5 C_L L_5 L_L R_2 g_m s^4 + 4C_5 C_L L_5 L_L s^4 + C_5 C_L L_5 R_2 R_5 g_m s^3 + 2C_5 C_L L_5 R_2 R_L g_m s^3 + C_5 C_L L_5 R_2 s^3 + C_5 C_L L_5 R_5 s^3 + 4C_5 C_L L_5 R_L s^3 + 2C_5 C_L L_L R_2 R_5 g_m s^3 + 4C_5 C_L L_L R_5}$$

10.81 INVALID-ORDER-81 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_5 C_L L_5 L_L R_2 R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_2 R_L s^4 + C_5 C_L L_5 L_L R_5 R_L s^4 + C_5 C_L L_L R_2 R_5 R_L s^3 + C_5 L_5 L_L R_2 R_5 g_m s^3 + 2C_5 L_5 L_L R_2 R_L g_m s^3 + C_5 L_5 L_L R_2 s^3 + C_5 L_5 L_L R_5 s^3 +}$$

10.82 INVALID-ORDER-82 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{L_L s}{C_L L_L s^2+1}+R_L\right)$

$$H(s) = \frac{}{C_5C_LL_5L_LR_2R_5g_ms^4 + 2C_5C_LL_5L_LR_2R_Lg_ms^4 + C_5C_LL_5L_LR_2s^4 + C_5C_LL_5L_LR_5s^4 + 4C_5C_LL_5L_LR_Ls^4 + 2C_5C_LL_LR_2R_5R_Lg_ms^3 + C_5C_LL_LR_2R_5s^3 + 4C_5C_LL_LR_5R_L$$

10.83 INVALID-ORDER-83 $Z(s) = \left(\infty,\ R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_5C_LL_5L_LR_2R_5g_ms^4 + 2C_5C_LL_5L_LR_2R_Lg_ms^4 + C_5C_LL_5L_LR_2s^4 + C_5C_LL_5L_LR_5s^4 + 4C_5C_LL_5L_LR_Ls^4 + C_5C_LL_5R_2R_5R_Lg_ms^3 + C_5C_LL_5R_2R_Ls^3 + C_5C_LL_5R_5R_Ls^3}$$

10.84 INVALID-ORDER-84 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2R_5s + R_5g_m - 1\right)}{C_2R_5s + 4C_2R_Ls + R_5g_m + 2R_Lg_m + 1}$$

10.85 INVALID-ORDER-85 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ L_L s+\frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2 + 1\right)\left(C_2R_5s + R_5g_m - 1\right)}{4C_2C_LL_Ls^3 + C_2C_LR_5s^2 + 4C_2s + 2C_LL_Lg_ms^2 + C_LR_5g_ms + C_Ls + 2g_m}$$

10.86 INVALID-ORDER-86 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_Ls\left(C_2R_5s + R_5g_m - 1\right)}{C_2C_LL_LR_5s^3 + 4C_2L_Ls^2 + C_2R_5s + C_LL_LR_5g_ms^2 + C_LL_Ls^2 + 2L_Lg_ms + R_5g_m + 1}$$

10.87 INVALID-ORDER-87 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_2 R_5 s + R_5 g_m - 1)\left(C_L L_L s^2 + C_L R_L s + 1\right)}{4C_2 C_L L_L s^3 + C_2 C_L R_5 s^2 + 4C_2 C_L R_L s^2 + 4C_2 s + 2C_L L_L g_m s^2 + C_L R_5 g_m s + 2C_L R_L g_m s + C_L s + 2g_m}$$

10.88 INVALID-ORDER-88 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s\,(C_2 R_5 s + R_5 g_m - 1)}{C_2 C_L L_L R_5 R_L s^3 + C_2 L_L R_5 s^2 + 4C_2 L_L R_L s^2 + C_2 R_5 R_L s + C_L L_L R_5 R_L g_m s^2 + C_L L_L R_L s^2 + L_L R_5 g_m s + 2L_L R_L g_m s + L_L s + R_5 R_L g_m + R_L}$$

10.89 INVALID-ORDER-89 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{(C_2 R_5 s + R_5 g_m - 1)\left(C_L L_L R_L s^2 + L_L s + R_L\right)}{C_2 C_L L_L R_5 s^3 + 4C_2 C_L L_L R_L s^3 + 4C_2 L_L s^2 + C_2 R_5 s + 4C_2 R_L s + C_L L_L R_5 g_m s^2 + 2C_L L_L R_L g_m s^2 + C_L L_L s^2 + 2L_L g_m s + R_5 g_m + 2R_L g_m + 1}$$

10.90 INVALID-ORDER-90 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{R_L\left(C_L L_L s^2 + 1\right)(C_2 R_5 s + R_5 g_m - 1)}{C_2 C_L L_L R_5 s^3 + 4C_2 C_L L_L R_L s^3 + C_2 C_L R_5 R_L s^2 + C_2 R_5 s + 4C_2 R_L s + C_L L_L R_5 g_m s^2 + 2C_L L_L R_L g_m s^2 + C_L L_L s^2 + C_L R_5 R_L g_m s + C_L R_L s + R_5 g_m + 2R_L g_m + 1}$$

10.91 INVALID-ORDER-91 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 s - C_5 s + g_m}{s\,(4C_2 C_5 s + C_2 C_L s + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

10.92 INVALID-ORDER-92 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1)(C_2 s - C_5 s + g_m)}{s(4C_2 C_5 C_L R_L s^2 + 4C_2 C_5 s + C_2 C_L s + 2C_5 C_L R_L g_m s + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

10.93 INVALID-ORDER-93 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)(C_2 s - C_5 s + g_m)}{s(4C_2 C_5 C_L L_L s^3 + 4C_2 C_5 s + C_2 C_L s + 2C_5 C_L L_L g_m s^2 + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

10.94 INVALID-ORDER-94 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L s(C_2 s - C_5 s + g_m)}{4C_2 C_5 L_L s^3 + C_2 C_L L_L s^3 + C_2 s + C_5 C_L L_L s^3 + 2C_5 L_L g_m s^2 + C_5 s + C_L L_L g_m s^2 + g_m}$$

10.95 INVALID-ORDER-95 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_2 s - C_5 s + g_m)\left(C_L L_L s^2 + C_L R_L s + 1\right)}{s(4C_2 C_5 C_L L_L s^3 + 4C_2 C_5 C_L R_L s^2 + 4C_2 C_5 s + C_2 C_L s + 2C_5 C_L L_L g_m s^2 + 2C_5 C_L R_L g_m s + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

10.96 INVALID-ORDER-96 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s(C_2 s - C_5 s + g_m)}{4C_2 C_5 L_L R_L s^3 + C_2 C_L L_L R_L s^3 + C_2 L_L s^2 + C_2 R_L s + C_5 C_L L_L R_L s^3 + 2C_5 L_L R_L g_m s^2 + C_5 L_L s^2 + C_5 R_L s + C_L L_L R_L g_m s^2 + L_L g_m s + R_L g_m}$$

10.97 INVALID-ORDER-97 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{(C_2 s - C_5 s + g_m)\left(C_L L_L R_L s^2 + L_L s + R_L\right)}{4C_2 C_5 C_L L_L R_L s^4 + 4C_2 C_5 L_L s^3 + 4C_2 C_5 R_L s^2 + C_2 C_L L_L s^3 + C_2 s + 2C_5 C_L L_L R_L g_m s^3 + C_5 C_L L_L s^3 + 2C_5 L_L g_m s^2 + 2C_5 R_L g_m s + C_5 s + C_L L_L g_m s^2 + g_m}$$

10.98 INVALID-ORDER-98 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = \frac{R_L\left(C_L L_L s^2+1\right)\left(C_2 s - C_5 s + g_m\right)}{4C_2C_5C_L L_L R_L s^4 + 4C_2C_5R_L s^2 + C_2C_L L_L s^3 + C_2C_L R_L s^2 + C_2 s + 2C_5C_L L_L R_L g_m s^3 + C_5C_L L_L s^3 + C_5C_L R_L s^2 + 2C_5 R_L g_m s + C_5 s + C_L L_L g_m s^2 + C_L R_L g_m s + g_m}$$

10.99 INVALID-ORDER-99 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L R_L s+1\right)\left(C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1\right)}{4C_2C_5C_L R_5 R_L s^3 + 4C_2C_5R_5 s^2 + C_2C_L R_5 s^2 + 4C_2C_L R_L s^2 + 4C_2 s + 2C_5C_L R_5 R_L g_m s^2 + C_5C_L R_5 s^2 + 2C_5 R_5 g_m s + C_L R_5 g_m s + 2C_L R_L g_m s + C_L s + 2g_m}$$

10.100 INVALID-ORDER-100 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ L_L s+\frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2+1\right)\left(C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1\right)}{4C_2C_5C_L L_L R_5 s^4 + 4C_2C_5R_5 s^2 + 4C_2C_L L_L s^3 + C_2C_L R_5 s^2 + 4C_2 s + 2C_5C_L L_L R_5 g_m s^3 + C_5C_L R_5 s^2 + 2C_5 R_5 g_m s + 2C_L L_L g_m s^2 + C_L R_5 g_m s + C_L s + 2g_m}$$

10.101 INVALID-ORDER-101 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1\right)}{4C_2C_5L_L R_5 s^3 + C_2C_L L_L R_5 s^3 + 4C_2L_L s^2 + C_2 R_5 s + C_5C_L L_L R_5 s^3 + 2C_5 L_L R_5 g_m s^2 + C_5 R_5 s + C_L L_L R_5 g_m s^2 + C_L L_L s^2 + 2L_L g_m s + R_5 g_m + 1}$$

10.102 INVALID-ORDER-102 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ L_L s+R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2+C_L R_L s+1\right)\left(C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1\right)}{4C_2C_5C_L L_L R_5 s^4 + 4C_2C_5C_L R_5 R_L s^3 + 4C_2C_5R_5 s^2 + 4C_2C_L L_L s^3 + C_2C_L R_5 s^2 + 4C_2C_L R_L s^2 + 4C_2 s + 2C_5C_L L_L R_5 g_m s^3 + 2C_5C_L R_5 R_L g_m s^2 + C_5C_L R_5 s^2 + 2C_5 R_5 g_m s$$

10.103 INVALID-ORDER-103 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s \left(C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1\right)}{4C_2C_5L_LR_5R_Ls^3 + C_2C_LL_LR_5R_Ls^3 + C_2L_LR_5s^2 + 4C_2L_LR_Ls^2 + C_2R_5R_Ls + C_5C_LL_LR_5R_Ls^3 + 2C_5L_LR_5R_Lg_ms^2 + C_5L_LR_5s^2 + C_5R_5R_Ls + C_LL_LR_5R_Lg_ms^2 + C_L}$$

10.104 INVALID-ORDER-104 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{\left(C_L L_L R_L s^2 + L_L s + R_L\right)\left(C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1\right)}{4C_2C_5C_LL_LR_5R_Ls^4 + 4C_2C_5L_LR_5R_Ls^3 + 4C_2C_5R_5R_Ls^2 + C_2C_LL_LR_5s^3 + 4C_2C_LL_LR_Ls^3 + 4C_2L_Ls^2 + C_2R_5s + 4C_2R_Ls + 2C_5C_LL_LR_5R_Lg_ms^3 + C_5C_LL_LR_5s^3 + 2C_5L_L}$$

10.105 INVALID-ORDER-105 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = \frac{R_L\left(C_L L_L s^2 + 1\right)\left(C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1\right)}{4C_2C_5C_LL_LR_5R_Ls^4 + 4C_2C_5R_5R_Ls^2 + C_2C_LL_LR_5s^3 + 4C_2C_LL_LR_Ls^3 + C_2C_LR_5R_Ls^2 + C_2R_5s + 4C_2R_Ls + 2C_5C_LL_LR_5R_Lg_ms^3 + C_5C_LL_LR_5s^3 + C_5C_LR_5R_Ls^2 + 2C}$$

10.106 INVALID-ORDER-106 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5R_5s^2 + C_2s + C_5R_5g_ms - C_5s + g_m}{s\left(C_2C_5C_LR_5s^2 + 4C_2C_5s + C_2C_Ls + C_5C_LR_5g_ms + C_5C_Ls + 2C_5g_m + C_Lg_m\right)}$$

10.107 INVALID-ORDER-107 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(C_2C_5R_5s^2 + C_2s + C_5R_5g_ms - C_5s + g_m\right)}{C_2C_5C_LR_5R_Ls^3 + C_2C_5R_5s^2 + 4C_2C_5R_Ls^2 + C_2C_LR_Ls^2 + C_2s + C_5C_LR_5R_Lg_ms^2 + C_5C_LR_Ls^2 + C_5R_5g_ms + 2C_5R_Lg_ms + C_5s + C_LR_Lg_ms + g_m}$$

10.108 INVALID-ORDER-108 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1)\left(C_2 C_5 R_5 s^2 + C_2 s + C_5 R_5 g_m s - C_5 s + g_m\right)}{s\left(C_2 C_5 C_L R_5 s^2 + 4 C_2 C_5 C_L R_L s^2 + 4 C_2 C_5 s + C_2 C_L s + C_5 C_L R_5 g_m s + 2 C_5 C_L R_L g_m s + C_5 C_L s + 2 C_5 g_m + C_L g_m\right)}$$

10.109 INVALID-ORDER-109 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 R_5 s^2 + C_2 s + C_5 R_5 g_m s - C_5 s + g_m\right)}{s\left(4 C_2 C_5 C_L L_L s^3 + C_2 C_5 C_L R_5 s^2 + 4 C_2 C_5 s + C_2 C_L s + 2 C_5 C_L L_L g_m s^2 + C_5 C_L R_5 g_m s + C_5 C_L s + 2 C_5 g_m + C_L g_m\right)}$$

10.110 INVALID-ORDER-110 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L s\left(C_2 C_5 R_5 s^2 + C_2 s + C_5 R_5 g_m s - C_5 s + g_m\right)}{C_2 C_5 C_L L_L R_5 s^4 + 4 C_2 C_5 L_L s^3 + C_2 C_5 R_5 s^2 + C_2 C_L L_L s^3 + C_2 s + C_5 C_L L_L R_5 g_m s^3 + C_5 C_L L_L s^3 + 2 C_5 L_L g_m s^2 + C_5 R_5 g_m s + C_5 s + C_L L_L g_m s^2 + g_m}$$

10.111 INVALID-ORDER-111 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_2 C_5 R_5 s^2 + C_2 s + C_5 R_5 g_m s - C_5 s + g_m\right)}{s\left(4 C_2 C_5 C_L L_L s^3 + C_2 C_5 C_L R_5 s^2 + 4 C_2 C_5 C_L R_L s^2 + 4 C_2 C_5 s + C_2 C_L s + 2 C_5 C_L L_L g_m s^2 + C_5 C_L R_5 g_m s + 2 C_5 C_L R_L g_m s + C_5 C_L s + 2 C_5 g_m + C_L g_m\right)}$$

10.112 INVALID-ORDER-112 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s\left(C_2 C_5 R_5 s^2 + C_2 s + C_5 R_5 g_m s - C_5 s + g_m\right)}{C_2 C_5 C_L L_L R_5 R_L s^4 + C_2 C_5 L_L R_5 s^3 + 4 C_2 C_5 L_L R_L s^3 + C_2 C_5 R_5 R_L s^2 + C_2 C_L L_L R_L s^3 + C_2 L_L s^2 + C_2 R_L s + C_5 C_L L_L R_5 R_L g_m s^3 + C_5 C_L L_L R_L s^3 + C_5 L_L R_5 g_m s^2 + 2 C_5 L$$

10.113 INVALID-ORDER-113 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{\left(C_L L_L R_L s^2 + L_L s + R_L\right)\left(C_2 C_5 R_5 s^2 + C_2 s + C_5 R_5 g_m s - C_5 s + g_m\right)}{C_2 C_5 C_L L_L R_5 s^4 + 4 C_2 C_5 C_L L_L R_L s^4 + 4 C_2 C_5 L_L s^3 + C_2 C_5 R_5 s^2 + 4 C_2 C_5 R_L s^2 + C_2 C_L L_L s^3 + C_2 s + C_5 C_L L_L R_5 g_m s^3 + 2 C_5 C_L L_L R_L g_m s^3 + C_5 C_L L_L s^3 + 2 C_5 L_L g_m s^2 +}$$

10.114 INVALID-ORDER-114 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{R_L\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 R_5 s^2 + C_2 s + C_5 R_5 g_m s - C_5 s + g_m\right)}{C_2 C_5 C_L L_L R_5 s^4 + 4 C_2 C_5 C_L L_L R_L s^4 + C_2 C_5 C_L R_5 R_L s^3 + C_2 C_5 R_5 s^2 + 4 C_2 C_5 R_L s^2 + C_2 C_L L_L s^3 + C_2 C_L R_L s^2 + C_2 s + C_5 C_L L_L R_5 g_m s^3 + 2 C_5 C_L L_L R_L g_m s^3 + C_5 C_L L_L s}$$

10.115 INVALID-ORDER-115 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2 C_5 L_5 s^3 + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{C_2 C_5 L_5 s^3 + 4 C_2 C_5 R_L s^2 + C_2 s + C_5 L_5 g_m s^2 + 2 C_5 R_L g_m s + C_5 s + g_m}$$

10.116 INVALID-ORDER-116 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 C_5 L_5 s^3 + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m}{s\left(C_2 C_5 C_L L_5 s^3 + 4 C_2 C_5 s + C_2 C_L s + C_5 C_L L_5 g_m s^2 + C_5 C_L s + 2 C_5 g_m + C_L g_m\right)}$$

10.117 INVALID-ORDER-117 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(C_2 C_5 L_5 s^3 + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{C_2 C_5 C_L L_5 R_L s^4 + C_2 C_5 L_5 s^3 + 4 C_2 C_5 R_L s^2 + C_2 C_L R_L s^2 + C_2 s + C_5 C_L L_5 R_L g_m s^3 + C_5 C_L R_L s^2 + C_5 L_5 g_m s^2 + 2 C_5 R_L g_m s + C_5 s + C_L R_L g_m s + g_m}$$

10.118 INVALID-ORDER-118 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1)\left(C_2 C_5 L_5 s^3 + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{s\left(C_2 C_5 C_L L_5 s^3 + 4 C_2 C_5 C_L R_L s^2 + 4 C_2 C_5 s + C_2 C_L s + C_5 C_L L_5 g_m s^2 + 2 C_5 C_L R_L g_m s + C_5 C_L s + 2 C_5 g_m + C_L g_m\right)}$$

10.119 INVALID-ORDER-119 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 L_5 s^3 + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{s\left(C_2 C_5 C_L L_5 s^3 + 4 C_2 C_5 C_L L_L s^3 + 4 C_2 C_5 s + C_2 C_L s + C_5 C_L L_5 g_m s^2 + 2 C_5 C_L L_L g_m s^2 + C_5 C_L s + 2 C_5 g_m + C_L g_m\right)}$$

10.120 INVALID-ORDER-120 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L s\left(C_2 C_5 L_5 s^3 + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{C_2 C_5 C_L L_5 L_L s^5 + C_2 C_5 L_5 s^3 + 4 C_2 C_5 L_L s^3 + C_2 C_L L_L s^3 + C_2 s + C_5 C_L L_5 L_L g_m s^4 + C_5 C_L L_L s^3 + C_5 L_5 g_m s^2 + 2 C_5 L_L g_m s^2 + C_5 s + C_L L_L g_m s^2 + g_m}$$

10.121 INVALID-ORDER-121 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_2 C_5 L_5 s^3 + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{s\left(C_2 C_5 C_L L_5 s^3 + 4 C_2 C_5 C_L L_L s^3 + 4 C_2 C_5 C_L R_L s^2 + 4 C_2 C_5 s + C_2 C_L s + C_5 C_L L_5 g_m s^2 + 2 C_5 C_L L_L g_m s^2 + 2 C_5 C_L R_L g_m s + C_5 C_L s + 2 C_5 g_m + C_L g_m\right)}$$

10.122 INVALID-ORDER-122 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s\left(C_2 C_5 L_5 s^3 + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{C_2 C_5 C_L L_5 L_L R_L s^5 + C_2 C_5 L_5 L_L s^4 + C_2 C_5 L_5 R_L s^3 + 4 C_2 C_5 L_L R_L s^3 + C_2 C_L L_L R_L s^3 + C_2 L_L s^2 + C_2 R_L s + C_5 C_L L_5 L_L R_L g_m s^4 + C_5 C_L L_L R_L s^3 + C_5 L_5 L_L g_m s^3 + C_5 L_5 R$$

10.123 INVALID-ORDER-123 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{\left(C_L L_L R_L s^2 + L_L s + R_L\right)\left(C_2 C_5 L_5 s^3 + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{C_2 C_5 C_L L_5 L_L s^5 + 4 C_2 C_5 C_L L_L R_L s^4 + C_2 C_5 L_5 s^3 + 4 C_2 C_5 L_L s^3 + 4 C_2 C_5 R_L s^2 + C_2 C_L L_L s^3 + C_2 s + C_5 C_L L_5 L_L g_m s^4 + 2 C_5 C_L L_L R_L g_m s^3 + C_5 C_L L_L s^3 + C_5 L_5 g_m s^2 + 2C}$$

10.124 INVALID-ORDER-124 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{R_L\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 L_5 s^3 + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{C_2 C_5 C_L L_5 L_L s^5 + C_2 C_5 C_L L_5 R_L s^4 + 4 C_2 C_5 C_L L_L R_L s^4 + C_2 C_5 L_5 s^3 + 4 C_2 C_5 R_L s^2 + C_2 C_L L_L s^3 + C_2 C_L R_L s^2 + C_2 s + C_5 C_L L_5 L_L g_m s^4 + C_5 C_L L_5 R_L g_m s^3 + 2 C_5 C_L L_L R}$$

10.125 INVALID-ORDER-125 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2 L_5 s^2 - C_5 L_5 s^2 + L_5 g_m s - 1\right)}{4 C_2 C_5 L_5 R_L s^3 + C_2 L_5 s^2 + 4 C_2 R_L s + 2 C_5 L_5 R_L g_m s^2 + C_5 L_5 s^2 + L_5 g_m s + 2 R_L g_m + 1}$$

10.126 INVALID-ORDER-126 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 L_5 s^2 - C_5 L_5 s^2 + L_5 g_m s - 1}{4 C_2 C_5 L_5 s^3 + C_2 C_L L_5 s^3 + 4 C_2 s + C_5 C_L L_5 s^3 + 2 C_5 L_5 g_m s^2 + C_L L_5 g_m s^2 + C_L s + 2 g_m}$$

10.127 INVALID-ORDER-127 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(C_2 L_5 s^2 - C_5 L_5 s^2 + L_5 g_m s - 1\right)}{4 C_2 C_5 L_5 R_L s^3 + C_2 C_L L_5 R_L s^3 + C_2 L_5 s^2 + 4 C_2 R_L s + C_5 C_L L_5 R_L s^3 + 2 C_5 L_5 R_L g_m s^2 + C_5 L_5 s^2 + C_L L_5 R_L g_m s^2 + C_L R_L s + L_5 g_m s + 2 R_L g_m + 1}$$

10.128 INVALID-ORDER-128 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1)\left(C_2 L_5 s^2 - C_5 L_5 s^2 + L_5 g_m s - 1\right)}{4C_2C_5C_L L_5 R_L s^4 + 4C_2C_5 L_5 s^3 + C_2 C_L L_5 s^3 + 4C_2 C_L R_L s^2 + 4C_2 s + 2C_5 C_L L_5 R_L g_m s^3 + C_5 C_L L_5 s^3 + 2C_5 L_5 g_m s^2 + C_L L_5 g_m s^2 + 2C_L R_L g_m s + C_L s + 2g_m}$$

10.129 INVALID-ORDER-129 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_2 L_5 s^2 - C_5 L_5 s^2 + L_5 g_m s - 1\right)}{4C_2C_5C_L L_5 L_L s^5 + 4C_2C_5 L_5 s^3 + C_2 C_L L_5 s^3 + 4C_2 C_L L_L s^3 + 4C_2 s + 2C_5 C_L L_5 L_L g_m s^4 + C_5 C_L L_5 s^3 + 2C_5 L_5 g_m s^2 + C_L L_5 g_m s^2 + 2C_L L_L g_m s^2 + C_L s + 2g_m}$$

10.130 INVALID-ORDER-130 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(C_2 L_5 s^2 - C_5 L_5 s^2 + L_5 g_m s - 1\right)}{4C_2C_5 L_5 L_L s^4 + C_2 C_L L_5 L_L s^4 + C_2 L_5 s^2 + 4C_2 L_L s^2 + C_5 C_L L_5 L_L s^4 + 2C_5 L_5 L_L g_m s^3 + C_5 L_5 s^2 + C_L L_5 L_L g_m s^3 + C_L L_L s^2 + L_5 g_m s + 2L_L g_m s + 1}$$

10.131 INVALID-ORDER-131 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_2 L_5 s^2 - C_5 L_5 s^2 + L_5 g_m s - 1\right)}{4C_2C_5C_L L_5 L_L s^5 + 4C_2C_5C_L L_5 R_L s^4 + 4C_2C_5 L_5 s^3 + C_2 C_L L_5 s^3 + 4C_2 C_L L_L s^3 + 4C_2 C_L R_L s^2 + 4C_2 s + 2C_5 C_L L_5 L_L g_m s^4 + 2C_5 C_L L_5 R_L g_m s^3 + C_5 C_L L_5 s^3 + 2C_5 L_5 g_m s^2}$$

10.132 INVALID-ORDER-132 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s\left(C_2 L_5 s^2 - C_5 L_5 s^2 + L_5 g_m s - 1\right)}{4C_2C_5 L_5 L_L R_L s^4 + C_2 C_L L_5 L_L R_L s^4 + C_2 L_5 L_L s^3 + C_2 L_5 R_L s^2 + 4C_2 L_L R_L s^2 + C_5 C_L L_5 L_L R_L s^4 + 2C_5 L_5 L_L R_L g_m s^3 + C_5 L_5 L_L s^3 + C_5 L_5 R_L s^2 + C_L L_5 L_L R_L g_m s^3 + C_L}$$

10.133 INVALID-ORDER-133 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{\left(C_L L_L R_L s^2 + L_L s + R_L\right)\left(C_2 L_5 s^2 - C_5 L_5 s^2 + L_5 g_m s -\right.}{4C_2C_5C_L L_5 L_L R_L s^5 + 4C_2C_5 L_5 L_L s^4 + 4C_2C_5 L_5 R_L s^3 + C_2 C_L L_5 L_L s^4 + 4C_2 C_L L_L R_L s^3 + C_2 L_5 s^2 + 4C_2 L_L s^2 + 4C_2 R_L s + 2C_5 C_L L_5 L_L R_L g_m s^4 + C_5 C_L L_5 L_L s^4 + 2C_5 L_5}$$

10.134 INVALID-ORDER-134 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{R_L\left(C_L L_L s^2 + 1\right)\left(C_2 L_5 s^2 - C_5 L_5 s^2 + L_5 g_m s - 1\right)}{4C_2C_5C_L L_5 L_L R_L s^5 + 4C_2C_5 L_5 R_L s^3 + C_2 C_L L_5 L_L s^4 + C_2 C_L L_5 R_L s^3 + 4C_2 C_L L_L R_L s^3 + C_2 L_5 s^2 + 4C_2 R_L s + 2C_5 C_L L_5 L_L R_L g_m s^4 + C_5 C_L L_5 L_L s^4 + C_5 C_L L_5 R_L s^3 + 2C}$$

10.135 INVALID-ORDER-135 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_5s^3 + C_2C_5R_5s^2 + C_2s + C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{C_2C_5L_5s^3 + C_2C_5R_5s^2 + 4C_2C_5R_Ls^2 + C_2s + C_5L_5g_ms^2 + C_5R_5g_ms + 2C_5R_Lg_ms + C_5s + g_m}$$

10.136 INVALID-ORDER-136 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_5s^3 + C_2C_5R_5s^2 + C_2s + C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m}{s\left(C_2C_5C_LL_5s^3 + C_2C_5C_LR_5s^2 + 4C_2C_5s + C_2C_Ls + C_5C_LL_5g_ms^2 + C_5C_LR_5g_ms + C_5C_Ls + 2C_5g_m + C_Lg_m\right)}$$

10.137 INVALID-ORDER-137 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_5s^3 + C_2C_5R_5s^2 + C_2s + C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{C_2C_5C_LL_5R_Ls^4 + C_2C_5C_LR_5R_Ls^3 + C_2C_5L_5s^3 + C_2C_5R_5s^2 + 4C_2C_5R_Ls^2 + C_2C_LR_Ls^2 + C_2s + C_5C_LL_5R_Lg_ms^3 + C_5C_LR_5R_Lg_ms^2 + C_5C_LR_Ls^2 + C_5L_5g_ms^2 + C_5R_5}$$

10.138 INVALID-ORDER-138 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1)\left(C_2 C_5 L_5 s^3 + C_2 C_5 R_5 s^2 + C_2 s + C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{s\left(C_2 C_5 C_L L_5 s^3 + C_2 C_5 C_L R_5 s^2 + 4 C_2 C_5 C_L R_L s^2 + 4 C_2 C_5 s + C_2 C_L s + C_5 C_L L_5 g_m s^2 + C_5 C_L R_5 g_m s + 2 C_5 C_L R_L g_m s + C_5 C_L s + 2 C_5 g_m + C_L g_m\right)}$$

10.139 INVALID-ORDER-139 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 L_5 s^3 + C_2 C_5 R_5 s^2 + C_2 s + C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{s\left(C_2 C_5 C_L L_5 s^3 + 4 C_2 C_5 C_L L_L s^3 + C_2 C_5 C_L R_5 s^2 + 4 C_2 C_5 s + C_2 C_L s + C_5 C_L L_5 g_m s^2 + 2 C_5 C_L L_L g_m s^2 + C_5 C_L R_5 g_m s + C_5 C_L s + 2 C_5 g_m + C_L g_m\right)}$$

10.140 INVALID-ORDER-140 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L s\left(C_2 C_5 L_5 s^3 + C_2 C_5 R_5 s^2 + C_2 s + C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{C_2 C_5 C_L L_5 L_L s^5 + C_2 C_5 C_L L_L R_5 s^4 + C_2 C_5 L_5 s^3 + 4 C_2 C_5 L_L s^3 + C_2 C_5 R_5 s^2 + C_2 C_L L_L s^3 + C_2 s + C_5 C_L L_5 L_L g_m s^4 + C_5 C_L L_L R_5 g_m s^3 + C_5 C_L L_L s^3 + C_5 L_5 g_m s^2 + 2 C_5 L_L}$$

10.141 INVALID-ORDER-141 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_2 C_5 L_5 s^3 + C_2 C_5 R_5 s^2 + C_2 s + C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{s\left(C_2 C_5 C_L L_5 s^3 + 4 C_2 C_5 C_L L_L s^3 + C_2 C_5 C_L R_5 s^2 + 4 C_2 C_5 C_L R_L s^2 + 4 C_2 C_5 s + C_2 C_L s + C_5 C_L L_5 g_m s^2 + 2 C_5 C_L L_L g_m s^2 + C_5 C_L R_5 g_m s + 2 C_5 C_L R_L g_m s + C_5 C_L s + 2 C_5 g_{\text{m}}\right.}$$

10.142 INVALID-ORDER-142 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s\left(C_2 C_5 L_5 s^3 + C_2 C_5 R_{\text{5}}\right.}{C_2 C_5 C_L L_5 L_L R_L s^5 + C_2 C_5 C_L L_L R_5 R_L s^4 + C_2 C_5 L_5 L_L s^4 + C_2 C_5 L_5 R_L s^3 + C_2 C_5 L_L R_5 s^3 + 4 C_2 C_5 L_L R_L s^3 + C_2 C_5 R_5 R_L s^2 + C_2 C_L L_L R_L s^3 + C_2 L_L s^2 + C_2 R_L s + C_5 C_L L}$$

10.143 INVALID-ORDER-143 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{\left(C_L L_L R_L s^2 + L_L s + R_L\right)\left(C_2 C_5 L_5 s^3 + C_2 C_5 R_5 s^2 + C_2 s + C_5 L_5 g_m s^2 + C_5 \right.}{C_2 C_5 C_L L_5 L_L s^5 + C_2 C_5 C_L L_L R_5 s^4 + 4 C_2 C_5 C_L L_L R_L s^4 + C_2 C_5 L_5 s^3 + 4 C_2 C_5 L_L s^3 + C_2 C_5 R_5 s^2 + 4 C_2 C_5 R_L s^2 + C_2 C_L L_L s^3 + C_2 s + C_5 C_L L_5 L_L g_m s^4 + C_5 C_L L_L R_5 g_m s^3 +}$$

10.144 INVALID-ORDER-144 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{R_L\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 L_5 s \right.}{C_2 C_5 C_L L_5 L_L s^5 + C_2 C_5 C_L L_5 R_L s^4 + C_2 C_5 C_L L_L R_5 s^4 + 4 C_2 C_5 C_L L_L R_L s^4 + C_2 C_5 C_L R_5 R_L s^3 + C_2 C_5 L_5 s^3 + C_2 C_5 R_5 s^2 + 4 C_2 C_5 R_L s^2 + C_2 C_L L_L s^3 + C_2 C_L R_L s^2 + C_2 s +}$$

10.145 INVALID-ORDER-145 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2 L_5 R_5 s^2 - C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5\right)}{4 C_2 C_5 L_5 R_5 R_L s^3 + C_2 L_5 R_5 s^2 + 4 C_2 L_5 R_L s^2 + 4 C_2 R_5 R_L s + 2 C_5 L_5 R_5 R_L g_m s^2 + C_5 L_5 R_5 s^2 + L_5 R_5 g_m s + 2 L_5 R_L g_m s + L_5 s + 2 R_5 R_L g_m + R_5}$$

10.146 INVALID-ORDER-146 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 L_5 R_5 s^2 - C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5}{4 C_2 C_5 L_5 R_5 s^3 + C_2 C_L L_5 R_5 s^3 + 4 C_2 L_5 s^2 + 4 C_2 R_5 s + C_5 C_L L_5 R_5 s^3 + 2 C_5 L_5 R_5 g_m s^2 + C_L L_5 R_5 g_m s^2 + C_L L_5 s^2 + C_L R_5 s + 2 L_5 g_m s + 2 R_5 g_m}$$

10.147 INVALID-ORDER-147 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{R_L\left(C_2 L_5 R_5 s^2 - C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5\right)}{4 C_2 C_5 L_5 R_5 R_L s^3 + C_2 C_L L_5 R_5 R_L s^3 + C_2 L_5 R_5 s^2 + 4 C_2 L_5 R_L s^2 + 4 C_2 R_5 R_L s + C_5 C_L L_5 R_5 R_L s^3 + 2 C_5 L_5 R_5 R_L g_m s^2 + C_5 L_5 R_5 s^2 + C_L L_5 R_5 R_L g_m s^2 + C_L L_5 R_L s^2 + C_L R$$

10.148 INVALID-ORDER-148 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ R_L+\frac{1}{C_L s}\right)$

$$H(s) = -\frac{(C_L R_L s+1)\left(-C_2 L_5 R_5 s^2 + C_5 L_5 R_5 s^2 - L_5 R_5 g_m s + L_5 s + R_5\right)}{4C_2C_5C_L L_5 R_5 R_L s^4 + 4C_2C_5 L_5 R_5 s^3 + C_2 C_L L_5 R_5 s^3 + 4C_2 C_L L_5 R_L s^3 + 4C_2 C_L R_5 R_L s^2 + 4C_2 L_5 s^2 + 4C_2 R_5 s + 2C_5 C_L L_5 R_5 R_L g_m s^3 + C_5 C_L L_5 R_5 s^3 + 2C_5 L_5 R_5 g_m s^2 +}$$

10.149 INVALID-ORDER-149 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ L_L s+\frac{1}{C_L s}\right)$

$$H(s) = -\frac{\left(C_L L_L s^2+1\right)\left(-C_2 L_5 R_5 s^2 + C_5 L_5 R_5 s^2 - L_5 R_5 g_m s + L_5 s + R_5\right)}{4C_2C_5C_L L_5 L_L R_5 s^5 + 4C_2C_5 L_5 R_5 s^3 + 4C_2 C_L L_5 L_L s^4 + C_2 C_L L_5 R_5 s^3 + 4C_2 C_L L_L R_5 s^3 + 4C_2 L_5 s^2 + 4C_2 R_5 s + 2C_5 C_L L_5 L_L R_5 g_m s^4 + C_5 C_L L_5 R_5 s^3 + 2C_5 L_5 R_5 g_m s^2 +}$$

10.150 INVALID-ORDER-150 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(C_2 L_5 R_5 s^2 - C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5\right)}{4C_2C_5 L_5 L_L R_5 s^4 + C_2 C_L L_5 L_L R_5 s^4 + 4C_2 L_5 L_L s^3 + C_2 L_5 R_5 s^2 + 4C_2 L_L R_5 s^2 + C_5 C_L L_5 L_L R_5 s^4 + 2C_5 L_5 L_L R_5 g_m s^3 + C_5 L_5 R_5 s^2 + C_L L_5 L_L R_5 g_m s^3 + C_L L_5 L_L s^3 + C_L L}$$

10.151 INVALID-ORDER-151 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ L_L s+R_L+\frac{1}{C_L s}\right)$

$$H(s) = -\frac{\left(C_L L_L s^2 + C_L R_L s\right.}{4C_2C_5C_L L_5 L_L R_5 s^5 + 4C_2C_5C_L L_5 R_5 R_L s^4 + 4C_2C_5 L_5 R_5 s^3 + 4C_2C_L L_5 L_L s^4 + C_2 C_L L_5 R_5 s^3 + 4C_2 C_L L_5 R_L s^3 + 4C_2 C_L L_L R_5 s^3 + 4C_2 C_L R_5 R_L s^2 + 4C_2 L_5 s^2 + 4C_2 R_5 s}$$

10.152 INVALID-ORDER-152 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s\left(C_2 L_5 R_5 s^2 - C_5 L\right.}{4C_2C_5 L_5 L_L R_5 R_L s^4 + C_2 C_L L_5 L_L R_5 R_L s^4 + C_2 L_5 L_L R_5 s^3 + 4C_2 L_5 L_L R_L s^3 + C_2 L_5 R_5 R_L s^2 + 4C_2 L_L R_5 R_L s^2 + C_5 C_L L_5 L_L R_5 R_L s^4 + 2C_5 L_5 L_L R_5 R_L g_m s^3 + C_5 L_5 L_L R_5 s^3}$$

10.153 INVALID-ORDER-153 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = -\frac{}{4C_2C_5C_LL_5L_LR_5R_Ls^5 + 4C_2C_5L_5L_LR_5s^4 + 4C_2C_5L_5R_5R_Ls^3 + C_2C_LL_5L_LR_5s^4 + 4C_2C_LL_5L_LR_Ls^4 + 4C_2C_LL_LR_5R_Ls^3 + 4C_2L_5L_Ls^3 + C_2L_5R_5s^2 + 4C_2L_5R_Ls^2 +$$

10.154 INVALID-ORDER-154 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = -\frac{}{4C_2C_5C_LL_5L_LR_5R_Ls^5 + 4C_2C_5L_5R_5R_Ls^3 + C_2C_LL_5L_LR_5s^4 + 4C_2C_LL_5L_LR_Ls^4 + C_2C_LL_5R_5R_Ls^3 + 4C_2C_LL_LR_5R_Ls^3 + C_2L_5R_5s^2 + 4C_2L_5R_Ls^2 + 4C_2R_5R_Ls + 2C$$

10.155 INVALID-ORDER-155 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_5R_5s^3 + C_2L_5s^2 + C_2R_5s + C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1\right)}{C_2C_5L_5R_5s^3 + 4C_2C_5L_5R_Ls^3 + C_2L_5s^2 + C_2R_5s + 4C_2R_Ls + C_5L_5R_5g_ms^2 + 2C_5L_5R_Lg_ms^2 + C_5L_5s^2 + L_5g_ms + R_5g_m + 2R_Lg_m + 1}$$

10.156 INVALID-ORDER-156 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_5R_5s^3 + C_2L_5s^2 + C_2R_5s + C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1}{C_2C_5C_LL_5R_5s^4 + 4C_2C_5L_5s^3 + C_2C_LL_5s^3 + C_2C_LR_5s^2 + 4C_2s + C_5C_LL_5R_5g_ms^3 + C_5C_LL_5s^3 + 2C_5L_5g_ms^2 + C_LL_5g_ms^2 + C_LR_5g_ms + C_Ls + 2g_m}$$

10.157 INVALID-ORDER-157 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_5R_5s^3 + C_2L_5s^2 + C_2R_5s + C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_\right.}{C_2C_5C_LL_5R_5R_Ls^4 + C_2C_5L_5R_5s^3 + 4C_2C_5L_5R_Ls^3 + C_2C_LL_5R_Ls^3 + C_2C_LR_5R_Ls^2 + C_2L_5s^2 + C_2R_5s + 4C_2R_Ls + C_5C_LL_5R_5R_Lg_ms^3 + C_5C_LL_5R_Ls^3 + C_5L_5R_5g_ms^2}$$

10.158 INVALID-ORDER-158 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1)\left(C_2 C_5 L_5 R_5 s^3 + C_2 L_5 s^2 + C_2 R_5 s + C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1\right)}{C_2 C_5 C_L L_5 R_5 s^4 + 4 C_2 C_5 C_L L_5 R_L s^4 + 4 C_2 C_5 L_5 s^3 + C_2 C_L L_5 s^3 + C_2 C_L R_5 s^2 + 4 C_2 C_L R_L s^2 + 4 C_2 s + C_5 C_L L_5 R_5 g_m s^3 + 2 C_5 C_L L_5 R_L g_m s^3 + C_5 C_L L_5 s^3 + 2 C_5 L_5 g_m s^2 + C}$$

10.159 INVALID-ORDER-159 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 L_5 R_5 s^3 + C_2 L_5 s^2 + C_2 R_5 s + C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1\right)}{4 C_2 C_5 C_L L_5 L_L s^5 + C_2 C_5 C_L L_5 R_5 s^4 + 4 C_2 C_5 L_5 s^3 + C_2 C_L L_5 s^3 + 4 C_2 C_L L_L s^3 + C_2 C_L R_5 s^2 + 4 C_2 s + 2 C_5 C_L L_5 L_L g_m s^4 + C_5 C_L L_5 R_5 g_m s^3 + C_5 C_L L_5 s^3 + 2 C_5 L_5 g_m s^2 + C}$$

10.160 INVALID-ORDER-160 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(C_2 C_5 L_5 R_5 s^3 + C_2 L_5 s^2 + C_2 R_5 s + C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + \right.}{C_2 C_5 C_L L_5 L_L R_5 s^5 + 4 C_2 C_5 L_5 L_L s^4 + C_2 C_5 L_5 R_5 s^3 + C_2 C_L L_5 L_L s^4 + C_2 C_L L_L R_5 s^3 + C_2 L_5 s^2 + 4 C_2 L_L s^2 + C_2 R_5 s + C_5 C_L L_5 L_L R_5 g_m s^4 + C_5 C_L L_5 L_L s^4 + 2 C_5 L_5 L_L g_m s^3}$$

10.161 INVALID-ORDER-161 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_2 C_5 L_5 R_5 s^3 + C_2 L_5 s^2 + C_2 R_5 s + C_5 L_5 R_5 g_m s^2 - C\right.}{4 C_2 C_5 C_L L_5 L_L s^5 + C_2 C_5 C_L L_5 R_5 s^4 + 4 C_2 C_5 C_L L_5 R_L s^4 + 4 C_2 C_5 L_5 s^3 + C_2 C_L L_5 s^3 + 4 C_2 C_L L_L s^3 + C_2 C_L R_5 s^2 + 4 C_2 C_L R_L s^2 + 4 C_2 s + 2 C_5 C_L L_5 L_L g_m s^4 + C_5 C_L L_5 R_5 g_m}$$

10.162 INVALID-ORDER-162 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_5 L_L R_5 R_L s^5 + C_2 C_5 L_5 L_L R_5 s^4 + 4 C_2 C_5 L_5 L_L R_L s^4 + C_2 C_5 L_5 R_5 R_L s^3 + C_2 C_L L_5 L_L R_L s^4 + C_2 C_L L_L R_5 R_L s^3 + C_2 L_5 L_L s^3 + C_2 L_5 R_L s^2 + C_2 L_L R_5 s^2 + 4 C_2 L_L R}$$

10.163 INVALID-ORDER-163 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{\left(C_L L_L R_L s^2 + L_L s\right.}{C_2 C_5 C_L L_5 L_L R_5 s^5 + 4 C_2 C_5 C_L L_5 L_L R_L s^5 + 4 C_2 C_5 L_5 L_L s^4 + C_2 C_5 L_5 R_5 s^3 + 4 C_2 C_5 L_5 R_L s^3 + C_2 C_L L_5 L_L s^4 + C_2 C_L L_L R_5 s^3 + 4 C_2 C_L L_L R_L s^3 + C_2 L_5 s^2 + 4 C_2 L_L s^2 + C_2}$$

10.164 INVALID-ORDER-164 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_5 L_L R_5 s^5 + 4 C_2 C_5 C_L L_5 L_L R_L s^5 + C_2 C_5 C_L L_5 R_5 R_L s^4 + C_2 C_5 L_5 R_5 s^3 + 4 C_2 C_5 L_5 R_L s^3 + C_2 C_L L_5 L_L s^4 + C_2 C_L L_5 R_L s^3 + C_2 C_L L_L R_5 s^3 + 4 C_2 C_L L_L R_L s^3 + C_2 C}$$

10.165 INVALID-ORDER-165 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2 C_5 L_5 R_5 s^3 + C_2 R_5 s + C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1\right)}{C_2 C_5 L_5 R_5 s^3 + 4 C_2 C_5 L_5 R_L s^3 + 4 C_2 C_5 R_5 R_L s^2 + C_2 R_5 s + 4 C_2 R_L s + C_5 L_5 R_5 g_m s^2 + 2 C_5 L_5 R_L g_m s^2 + C_5 L_5 s^2 + 2 C_5 R_5 R_L g_m s + C_5 R_5 s + R_5 g_m + 2 R_L g_m + 1}$$

10.166 INVALID-ORDER-166 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 C_5 L_5 R_5 s^3 + C_2 R_5 s + C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1}{C_2 C_5 C_L L_5 R_5 s^4 + 4 C_2 C_5 L_5 s^3 + 4 C_2 C_5 R_5 s^2 + C_2 C_L R_5 s^2 + 4 C_2 s + C_5 C_L L_5 R_5 g_m s^3 + C_5 C_L L_5 s^3 + C_5 C_L R_5 s^2 + 2 C_5 L_5 g_m s^2 + 2 C_5 R_5 g_m s + C_L R_5 g_m s + C_L s + 2 g_m}$$

10.167 INVALID-ORDER-167 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{R_L\left(C_2 C_5 L_5 R_5 s^3 + C_2 R_5 s + C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g\right.}{C_2 C_5 C_L L_5 R_5 R_L s^4 + C_2 C_5 L_5 R_5 s^3 + 4 C_2 C_5 L_5 R_L s^3 + 4 C_2 C_5 R_5 R_L s^2 + C_2 C_L R_5 R_L s^2 + C_2 R_5 s + 4 C_2 R_L s + C_5 C_L L_5 R_5 R_L g_m s^3 + C_5 C_L L_5 R_L s^3 + C_5 C_L R_5 R_L s^2 + C_5 L_5}$$

10.168 INVALID-ORDER-168 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s+1)\left(C_2 C_5 L_5 R_5 s^3 + C_2 R_5 s + C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + \right.}{C_2 C_5 C_L L_5 R_5 s^4 + 4C_2 C_5 C_L L_5 R_L s^4 + 4C_2 C_5 C_L R_5 R_L s^3 + 4C_2 C_5 L_5 s^3 + 4C_2 C_5 R_5 s^2 + C_2 C_L R_5 s^2 + 4C_2 C_L R_L s^2 + 4C_2 s + C_5 C_L L_5 R_5 g_m s^3 + 2C_5 C_L L_5 R_L g_m s^3 + C_5 C_L L$$

10.169 INVALID-ORDER-169 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ L_L s+\frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2+1\right)\left(C_2 C_5 L_5 R_5 s^3 + C_2 R_5 s + C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + \right.}{4C_2 C_5 C_L L_5 L_L s^5 + C_2 C_5 C_L L_5 R_5 s^4 + 4C_2 C_5 C_L L_L R_5 s^4 + 4C_2 C_5 L_5 s^3 + 4C_2 C_5 R_5 s^2 + 4C_2 C_L L_L s^3 + C_2 C_L R_5 s^2 + 4C_2 s + 2C_5 C_L L_5 L_L g_m s^4 + C_5 C_L L_5 R_5 g_m s^3 + C_5 C_L L_5$$

10.170 INVALID-ORDER-170 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(C_2 C_5 L_5 R_5 s^3 + C_2 R_5 s + C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R\right.}{C_2 C_5 C_L L_5 L_L R_5 s^5 + 4C_2 C_5 L_5 L_L s^4 + C_2 C_5 L_5 R_5 s^3 + 4C_2 C_5 L_L R_5 s^3 + C_2 C_L L_L R_5 s^3 + 4C_2 L_L s^2 + C_2 R_5 s + C_5 C_L L_5 L_L R_5 g_m s^4 + C_5 C_L L_5 L_L s^4 + C_5 C_L L_L R_5 s^3 + 2C_5 L_5$$

10.171 INVALID-ORDER-171 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ L_L s+R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2+C_L R_L s+1\right)\left(\right.}{4C_2 C_5 C_L L_5 L_L s^5 + C_2 C_5 C_L L_5 R_5 s^4 + 4C_2 C_5 C_L L_5 R_L s^4 + 4C_2 C_5 C_L L_L R_5 s^4 + 4C_2 C_5 C_L R_5 R_L s^3 + 4C_2 C_5 L_5 s^3 + 4C_2 C_5 R_5 s^2 + 4C_2 C_L L_L s^3 + C_2 C_L R_5 s^2 + 4C_2 C_L R_L s^2 +$$

10.172 INVALID-ORDER-172 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_5 L_L R_5 R_L s^5 + C_2 C_5 L_5 L_L R_5 s^4 + 4C_2 C_5 L_5 L_L R_L s^4 + C_2 C_5 L_5 R_5 R_L s^3 + 4C_2 C_5 L_L R_5 R_L s^3 + C_2 C_L L_L R_5 R_L s^3 + C_2 L_L R_5 s^2 + 4C_2 L_L R_L s^2 + C_2 R_5 R_L s + C_5 C_L L$$

10.173 INVALID-ORDER-173 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{L_L s}{C_L L_L s^2+1}+R_L\right)$

$$H(s) = \frac{}{C_2C_5C_LL_5L_LR_5s^5 + 4C_2C_5C_LL_5L_LR_Ls^5 + 4C_2C_5C_LL_LR_5R_Ls^4 + 4C_2C_5L_5L_Ls^4 + C_2C_5L_5R_5s^3 + 4C_2C_5L_5R_Ls^3 + 4C_2C_5L_LR_5s^3 + 4C_2C_5R_5R_Ls^2 + C_2C_LL_LR_5s^3 + 4$$

10.174 INVALID-ORDER-174 $Z(s) = \left(\infty,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_5L_LR_5s^5 + 4C_2C_5C_LL_5L_LR_Ls^5 + C_2C_5C_LL_5R_5R_Ls^4 + 4C_2C_5C_LL_LR_5R_Ls^4 + C_2C_5L_5R_5s^3 + 4C_2C_5L_5R_Ls^3 + 4C_2C_5R_5R_Ls^2 + C_2C_LL_LR_5s^3 + 4C_2C_LL_LR_L$$

10.175 INVALID-ORDER-175 $Z(s) = \left(\infty,\ \frac{R_2}{C_2 R_2 s+1},\ \infty,\ \infty,\ R_5,\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{C_2R_2R_5s + 4C_2R_2R_Ls + R_2R_5g_m + 2R_2R_Lg_m + R_2 + R_5 + 4R_L}$$

10.176 INVALID-ORDER-176 $Z(s) = \left(\infty,\ \frac{R_2}{C_2 R_2 s+1},\ \infty,\ \infty,\ R_5,\ L_L s+\frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2+1\right)\left(C_2R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{4C_2C_LL_LR_2s^3 + C_2C_LR_2R_5s^2 + 4C_2R_2s + 2C_LL_LR_2g_ms^2 + 4C_LL_Ls^2 + C_LR_2R_5g_ms + C_LR_2s + C_LR_5s + 2R_2g_m + 4}$$

10.177 INVALID-ORDER-177 $Z(s) = \left(\infty,\ \frac{R_2}{C_2 R_2 s+1},\ \infty,\ \infty,\ R_5,\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_Ls\left(C_2R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{C_2C_LL_LR_2R_5s^3 + 4C_2L_LR_2s^2 + C_2R_2R_5s + C_LL_LR_2R_5g_ms^2 + C_LL_LR_2s^2 + C_LL_LR_5s^2 + 2L_LR_2g_ms + 4L_Ls + R_2R_5g_m + R_2 + R_5}$$

10.178 INVALID-ORDER-178 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ R_5,\ L_Ls + R_L + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2 + C_LR_Ls + 1\right)\left(C_2R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{4C_2C_LL_LR_2s^3 + C_2C_LR_2R_5s^2 + 4C_2C_LR_2R_Ls^2 + 4C_2R_2s + 2C_LL_LR_2g_ms^2 + 4C_LL_Ls^2 + C_LR_2R_5g_ms + 2C_LR_2R_Lg_ms + C_LR_2s + C_LR_5s + 4C_LR_Ls + 2R_2g_m + 4}$$

10.179 INVALID-ORDER-179 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ R_5,\ \frac{1}{C_Ls+\frac{1}{R_L}+\frac{1}{L_Ls}}\right)$

$$H(s) = \frac{L_LR_Ls\left(C_2R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{C_2C_LL_LR_2R_5R_Ls^3 + C_2L_LR_2R_5s^2 + 4C_2L_LR_2R_Ls^2 + C_2R_2R_5R_Ls + C_LL_LR_2R_5R_Lg_ms^2 + C_LL_LR_2R_Ls^2 + C_LL_LR_5R_Ls^2 + L_LR_2R_5g_ms + 2L_LR_2R_Lg_ms + L_LR_2s + L$$

10.180 INVALID-ORDER-180 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ R_5,\ \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$

$$H(s) = \frac{\left(C_LL_LR_Ls^2 + L_Ls + R_L\right)\left(C_2R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{C_2C_LL_LR_2R_5s^3 + 4C_2C_LL_LR_2R_Ls^3 + 4C_2L_LR_2s^2 + C_2R_2R_5s + 4C_2R_2R_Ls + C_LL_LR_2R_5g_ms^2 + 2C_LL_LR_2R_Lg_ms^2 + C_LL_LR_2s^2 + C_LL_LR_5s^2 + 4C_LL_LR_Ls^2 + 2L_LR_2$$

10.181 INVALID-ORDER-181 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ R_5,\ \frac{R_L\left(L_Ls+\frac{1}{C_Ls}\right)}{L_Ls+R_L+\frac{1}{C_Ls}}\right)$

$$H(s) = \frac{R_L\left(C_LL_Ls^2 + 1\right)\left(C_2R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{C_2C_LL_LR_2R_5s^3 + 4C_2C_LL_LR_2R_Ls^3 + C_2C_LR_2R_5R_Ls^2 + C_2R_2R_5s + 4C_2R_2R_Ls + C_LL_LR_2R_5g_ms^2 + 2C_LL_LR_2R_Lg_ms^2 + C_LL_LR_2s^2 + C_LL_LR_5s^2 + 4C_LL_LR_Ls^2 + C$$

10.182 INVALID-ORDER-182 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s},\ \frac{1}{C_Ls}\right)$

$$H(s) = \frac{C_2R_2s - C_5R_2s + R_2g_m + 1}{s\left(4C_2C_5R_2s + C_2C_LR_2s + C_5C_LR_2s + 2C_5R_2g_m + 4C_5 + C_LR_2g_m + C_L\right)}$$

10.183 INVALID-ORDER-183 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s},\ R_L + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(C_2R_2s - C_5R_2s + R_2g_m + 1\right)}{s\left(4C_2C_5C_LR_2R_Ls^2 + 4C_2C_5R_2s + C_2C_LR_2s + 2C_5C_LR_2R_Lg_ms + C_5C_LR_2s + 4C_5C_LR_Ls + 2C_5R_2g_m + 4C_5 + C_LR_2g_m + C_L\right)}$$

10.184 INVALID-ORDER-184 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s},\ L_Ls + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2+1\right)\left(C_2R_2s - C_5R_2s + R_2g_m + 1\right)}{s\left(4C_2C_5C_LL_LR_2s^3 + 4C_2C_5R_2s + C_2C_LR_2s + 2C_5C_LL_LR_2g_ms^2 + 4C_5C_LL_Ls^2 + C_5C_LR_2s + 2C_5R_2g_m + 4C_5 + C_LR_2g_m + C_L\right)}$$

10.185 INVALID-ORDER-185 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s},\ \frac{L_Ls}{C_LL_Ls^2+1}\right)$

$$H(s) = \frac{L_Ls\left(C_2R_2s - C_5R_2s + R_2g_m + 1\right)}{4C_2C_5L_LR_2s^3 + C_2C_LL_LR_2s^3 + C_2R_2s + C_5C_LL_LR_2s^3 + 2C_5L_LR_2g_ms^2 + 4C_5L_Ls^2 + C_5R_2s + C_LL_LR_2g_ms^2 + C_LL_Ls^2 + R_2g_m + 1}$$

10.186 INVALID-ORDER-186 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s},\ L_Ls + R_L + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2 + C_LR_Ls + 1\right)\left(C_2R_2s - C_5R_2s + R_2g_m + 1\right)}{s\left(4C_2C_5C_LL_LR_2s^3 + 4C_2C_5C_LR_2R_Ls^2 + 4C_2C_5R_2s + C_2C_LR_2s + 2C_5C_LL_LR_2g_ms^2 + 4C_5C_LL_Ls^2 + 2C_5C_LR_2R_Lg_ms + C_5C_LR_2s + 4C_5C_LR_Ls + 2C_5R_2g_m + 4C_5 + C\right.}$$

10.187 INVALID-ORDER-187 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s},\ \frac{1}{C_Ls+\frac{1}{R_L}+\frac{1}{L_Ls}}\right)$

$$H(s) = \frac{L_LR_Ls\left(C_2R_2s - C_5R_2s + R_2g_m + 1\right)}{4C_2C_5L_LR_2R_Ls^3 + C_2C_LL_LR_2R_Ls^3 + C_2L_LR_2s^2 + C_2R_2R_Ls + C_5C_LL_LR_2R_Ls^3 + 2C_5L_LR_2R_Lg_ms^2 + C_5L_LR_2s^2 + 4C_5L_LR_Ls^2 + C_5R_2R_Ls + C_LL_LR_2R_Lg_ms^2 + C_L1}$$

10.188 INVALID-ORDER-188 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s},\ \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$

$$H(s) = \frac{\left(C_LL_LR_Ls^2 + L_Ls + R_L\right)\left(C_2R_2s - C_5R_2s + R_2g_m + 1\right)}{4C_2C_5C_LL_LR_2R_Ls^4 + 4C_2C_5L_LR_2s^3 + 4C_2C_5R_2R_Ls^2 + C_2C_LL_LR_2s^3 + C_2R_2s + 2C_5C_LL_LR_2R_Lg_ms^3 + C_5C_LL_LR_2s^3 + 4C_5C_LL_LR_Ls^3 + 2C_5L_LR_2g_ms^2 + 4C_5L_Ls^2 +}$$

10.189 INVALID-ORDER-189 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s},\ \frac{R_L\left(L_Ls+\frac{1}{C_Ls}\right)}{L_Ls+R_L+\frac{1}{C_Ls}}\right)$

$$H(s) = \frac{R_L\left(C_LL_Ls^2+1\right)\left(C_2R_2s-C_5R_2s+R_2g_m+1\right)}{4C_2C_5C_LL_LR_2R_Ls^4+4C_2C_5R_2R_Ls^2+C_2C_LL_LR_2s^3+C_2C_LR_2R_Ls^2+C_2R_2s+2C_5C_LL_LR_2R_Lg_ms^3+C_5C_LL_LR_2s^3+4C_5C_LL_LR_Ls^3+C_5C_LR_2R_Ls^2+2C_5R_2R_Lg_m}$$

10.190 INVALID-ORDER-190 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ R_L+\frac{1}{C_Ls}\right)$

$$H(s) = \frac{\left(C_LR_Ls+1\right)\left(C_2R_2R_5s-C_5R_2R_5s+R_2R_5g_m-R_2+R_5\right)}{4C_2C_5C_LR_2R_5R_Ls^3+4C_2C_5R_2R_5s^2+C_2C_LR_2R_5s^2+4C_2C_LR_2R_Ls^2+4C_2R_2s+2C_5C_LR_2R_5R_Lg_ms^2+C_5C_LR_2R_5s^2+4C_5C_LR_5R_Ls^2+2C_5R_2R_5g_ms+4C_5R_5s+C}$$

10.191 INVALID-ORDER-191 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ L_Ls+\frac{1}{C_Ls}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2+1\right)\left(C_2R_2R_5s-C_5R_2R_5s+R_2R_5g_m-R_2+R_5\right)}{4C_2C_5C_LL_LR_2R_5s^4+4C_2C_5R_2R_5s^2+4C_2C_LL_LR_2s^3+C_2C_LR_2R_5s^2+4C_2R_2s+2C_5C_LL_LR_2R_5g_ms^3+4C_5C_LL_LR_5s^3+C_5C_LR_2R_5s^2+2C_5R_2R_5g_ms+4C_5R_5s+2C}$$

10.192 INVALID-ORDER-192 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \frac{L_Ls}{C_LL_Ls^2+1}\right)$

$$H(s) = \frac{L_Ls\left(C_2R_2R_5s-C_5R_2R_5s+R_2R_5g_m-R_2+R_5\right)}{4C_2C_5L_LR_2R_5s^3+C_2C_LL_LR_2R_5s^3+4C_2L_LR_2s^2+C_2R_2R_5s+C_5C_LL_LR_2R_5s^3+2C_5L_LR_2R_5g_ms^2+4C_5L_LR_5s^2+C_5R_2R_5s+C_LL_LR_2R_5g_ms^2+C_LL_LR_2s^2+C_LL}$$

10.193 INVALID-ORDER-193 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ L_Ls+R_L+\frac{1}{C_Ls}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2+C_LR_Ls+1\right)\left(C_2\right.}{4C_2C_5C_LL_LR_2R_5s^4+4C_2C_5C_LR_2R_5R_Ls^3+4C_2C_5R_2R_5s^2+4C_2C_LL_LR_2s^3+C_2C_LR_2R_5s^2+4C_2C_LR_2R_Ls^2+4C_2R_2s+2C_5C_LL_LR_2R_5g_ms^3+4C_5C_LL_LR_5s^3+2C_5}$$

10.194 INVALID-ORDER-194 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \frac{1}{C_Ls+\frac{1}{R_L}+\frac{1}{L_Ls}}\right)$

$$H(s) = \frac{L_LR_Ls\left(C_2R_2R_5s - C_5R_2R_5\right.}{4C_2C_5L_LR_2R_5R_Ls^3 + C_2C_LL_LR_2R_5R_Ls^3 + C_2L_LR_2R_5s^2 + 4C_2L_LR_2R_Ls^2 + C_2R_2R_5R_Ls + C_5C_LL_LR_2R_5R_Ls^3 + 2C_5L_LR_2R_5R_Lg_ms^2 + C_5L_LR_2R_5s^2 + 4C_5L_LR_5R_Ls}$$

10.195 INVALID-ORDER-195 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$

$$H(s) = \frac{}{4C_2C_5C_LL_LR_2R_5R_Ls^4 + 4C_2C_5L_LR_2R_5s^3 + 4C_2C_5R_2R_5R_Ls^2 + C_2C_LL_LR_2R_5s^3 + 4C_2C_LL_LR_2R_Ls^3 + 4C_2L_LR_2s^2 + C_2R_2R_5s + 4C_2R_2R_Ls + 2C_5C_LL_LR_2R_5R_Lg_ms^3}$$

10.196 INVALID-ORDER-196 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \frac{R_L\left(L_Ls+\frac{1}{C_Ls}\right)}{L_Ls+R_L+\frac{1}{C_Ls}}\right)$

$$H(s) = \frac{}{4C_2C_5C_LL_LR_2R_5R_Ls^4 + 4C_2C_5R_2R_5R_Ls^2 + C_2C_LL_LR_2R_5s^3 + 4C_2C_LL_LR_2R_Ls^3 + C_2C_LR_2R_5R_Ls^2 + C_2R_2R_5s + 4C_2R_2R_Ls + 2C_5C_LL_LR_2R_5R_Lg_ms^3 + C_5C_LL_LR_2R$$

10.197 INVALID-ORDER-197 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5s},\ \frac{1}{C_Ls}\right)$

$$H(s) = \frac{C_2C_5R_2R_5s^2 + C_2R_2s + C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1}{s\left(C_2C_5C_LR_2R_5s^2 + 4C_2C_5R_2s + C_2C_LR_2s + C_5C_LR_2R_5g_ms + C_5C_LR_2s + C_5C_LR_5s + 2C_5R_2g_m + 4C_5 + C_LR_2g_m + C_L\right)}$$

10.198 INVALID-ORDER-198 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5s},\ \frac{R_L}{C_LR_Ls+1}\right)$

$$H(s) = \frac{R_L\left(C_2C_5R_2R_5s^2 + C_2R_2s + C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{C_2C_5C_LR_2R_5R_Ls^3 + C_2C_5R_2R_5s^2 + 4C_2C_5R_2R_Ls^2 + C_2C_LR_2R_Ls^2 + C_2R_2s + C_5C_LR_2R_5R_Lg_ms^2 + C_5C_LR_2R_Ls^2 + C_5C_LR_5R_Ls^2 + C_5R_2R_5g_ms + 2C_5R_2R_Lg_ms + C_5$$

10.199 INVALID-ORDER-199 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5s},\ R_L + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(C_2C_5R_2R_5s^2 + C_2R_2s + C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{s\left(C_2C_5C_LR_2R_5s^2 + 4C_2C_5C_LR_2R_Ls^2 + 4C_2C_5R_2s + C_2C_LR_2s + C_5C_LR_2R_5g_ms + 2C_5C_LR_2R_Lg_ms + C_5C_LR_2s + C_5C_LR_5s + 4C_5C_LR_Ls + 2C_5R_2g_m + 4C_5 + C_LR_2g_m\right.}$$

10.200 INVALID-ORDER-200 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5s},\ L_Ls + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2+1\right)\left(C_2C_5R_2R_5s^2 + C_2R_2s + C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{s\left(4C_2C_5C_LL_LR_2s^3 + C_2C_5C_LR_2R_5s^2 + 4C_2C_5R_2s + C_2C_LR_2s + 2C_5C_LL_LR_2g_ms^2 + 4C_5C_LL_Ls^2 + C_5C_LR_2R_5g_ms + C_5C_LR_2s + C_5C_LR_5s + 2C_5R_2g_m + 4C_5 + C_LR_2\right.}$$

10.201 INVALID-ORDER-201 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5s},\ \frac{L_Ls}{C_LL_Ls^2+1}\right)$

$$H(s) = \frac{L_Ls\left(C_2C_5R_2R_5s^2 + C_2R_2s + C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{C_2C_5C_LL_LR_2R_5s^4 + 4C_2C_5L_LR_2s^3 + C_2C_5R_2R_5s^2 + C_2C_LL_LR_2s^3 + C_2R_2s + C_5C_LL_LR_2R_5g_ms^3 + C_5C_LL_LR_2s^3 + C_5C_LL_LR_5s^3 + 2C_5L_LR_2g_ms^2 + 4C_5L_Ls^2 + C_5R_2}$$

10.202 INVALID-ORDER-202 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5s},\ L_Ls + R_L + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2 + C_LR_Ls + 1\right)\left(C_2C_5R_2R_5s^2 + C_2R_2s + C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{s\left(4C_2C_5C_LL_LR_2s^3 + C_2C_5C_LR_2R_5s^2 + 4C_2C_5C_LR_2R_Ls^2 + 4C_2C_5R_2s + C_2C_LR_2s + 2C_5C_LL_LR_2g_ms^2 + 4C_5C_LL_Ls^2 + C_5C_LR_2R_5g_ms + 2C_5C_LR_2R_Lg_ms + C_5C_LR_2s\right.}$$

10.203 INVALID-ORDER-203 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5s},\ \frac{1}{C_Ls+\frac{1}{R_L}+\frac{1}{L_Ls}}\right)$

$$H(s) = \frac{L_LR_Ls\left(C_2C_5R_2\right.}{C_2C_5C_LL_LR_2R_5R_Ls^4 + C_2C_5L_LR_2R_5s^3 + 4C_2C_5L_LR_2R_Ls^3 + C_2C_5R_2R_5R_Ls^2 + C_2C_LL_LR_2R_Ls^3 + C_2L_LR_2s^2 + C_2R_2R_Ls + C_5C_LL_LR_2R_5R_Lg_ms^3 + C_5C_LL_LR_2R_Ls^3}$$

10.204 INVALID-ORDER-204 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5s},\ \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$

$$H(s) = \frac{\left(C_LL_LR_Ls^2 + L_Ls + R_L\right)\left(C_2C_5R_2R_5s^2 + C_2}{C_2C_5C_LL_LR_2R_5s^4 + 4C_2C_5C_LL_LR_2R_Ls^4 + 4C_2C_5L_LR_2s^3 + C_2C_5R_2R_5s^2 + 4C_2C_5R_2R_Ls^2 + C_2C_LL_LR_2s^3 + C_2R_2s + C_5C_LL_LR_2R_5g_ms^3 + 2C_5C_LL_LR_2R_Lg_ms^3 + C_5}$$

10.205 INVALID-ORDER-205 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5s},\ \frac{R_L\left(L_Ls+\frac{1}{C_Ls}\right)}{L_Ls+R_L+\frac{1}{C_Ls}}\right)$

$$H(s) = \frac{R_L\left(C}{C_2C_5C_LL_LR_2R_5s^4 + 4C_2C_5C_LL_LR_2R_Ls^4 + C_2C_5C_LR_2R_5R_Ls^3 + C_2C_5R_2R_5s^2 + 4C_2C_5R_2R_Ls^2 + C_2C_LL_LR_2s^3 + C_2C_LR_2R_Ls^2 + C_2R_2s + C_5C_LL_LR_2R_5g_ms^3 + 2C_5C}$$

10.206 INVALID-ORDER-206 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + \frac{1}{C_5s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_5R_2s^3 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 - C_5R_2s + R_2g_m + 1\right)}{C_2C_5L_5R_2s^3 + 4C_2C_5R_2R_Ls^2 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 + 2C_5R_2R_Lg_ms + C_5R_2s + 4C_5R_Ls + R_2g_m + 1}$$

10.207 INVALID-ORDER-207 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + \frac{1}{C_5s},\ \frac{1}{C_Ls}\right)$

$$H(s) = \frac{C_2C_5L_5R_2s^3 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 - C_5R_2s + R_2g_m + 1}{s\left(C_2C_5C_LL_5R_2s^3 + 4C_2C_5R_2s + C_2C_LR_2s + C_5C_LL_5R_2g_ms^2 + C_5C_LL_5s^2 + C_5C_LR_2s + 2C_5R_2g_m + 4C_5 + C_LR_2g_m + C_L\right)}$$

10.208 INVALID-ORDER-208 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + \frac{1}{C_5s},\ \frac{R_L}{C_LR_Ls+1}\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_5R_2s^3 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 - C_5R_2s + R_2g_m + 1\right)}{C_2C_5C_LL_5R_2R_Ls^4 + C_2C_5L_5R_2s^3 + 4C_2C_5R_2R_Ls^2 + C_2C_LR_2R_Ls^2 + C_2R_2s + C_5C_LL_5R_2R_Lg_ms^3 + C_5C_LL_5R_Ls^3 + C_5C_LR_2R_Ls^2 + C_5L_5R_2g_ms^2 + C_5L_5s^2 + 2C_5R_2R}$$

10.209 INVALID-ORDER-209 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + \frac{1}{C_5s},\ R_L + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(C_2C_5L_5R_2s^3 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 - C_5R_2s + R_2g_m + 1\right)}{s\left(C_2C_5C_LL_5R_2s^3 + 4C_2C_5C_LR_2R_Ls^2 + 4C_2C_5R_2s + C_2C_LR_2s + C_5C_LL_5R_2g_ms^2 + C_5C_LL_5s^2 + 2C_5C_LR_2R_Lg_ms + C_5C_LR_2s + 4C_5C_LR_Ls + 2C_5R_2g_m + 4C_5 + C_LR_2\right.}$$

10.210 INVALID-ORDER-210 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + \frac{1}{C_5s},\ L_Ls + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2+1\right)\left(C_2C_5L_5R_2s^3 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 - C_5R_2s + R_2g_m + 1\right)}{s\left(C_2C_5C_LL_5R_2s^3 + 4C_2C_5C_LL_LR_2s^3 + 4C_2C_5R_2s + C_2C_LR_2s + C_5C_LL_5R_2g_ms^2 + C_5C_LL_5s^2 + 2C_5C_LL_LR_2g_ms^2 + 4C_5C_LL_Ls^2 + C_5C_LR_2s + 2C_5R_2g_m + 4C_5 + C_LR\right.}$$

10.211 INVALID-ORDER-211 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + \frac{1}{C_5s},\ \frac{L_Ls}{C_LL_Ls^2+1}\right)$

$$H(s) = \frac{L_Ls\left(C_2C_5L_5R_2s^3 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 - C_5R_2s + R_2g_m + 1\right)}{C_2C_5C_LL_5L_LR_2s^5 + C_2C_5L_5R_2s^3 + 4C_2C_5L_LR_2s^3 + C_2C_LL_LR_2s^3 + C_2R_2s + C_5C_LL_5L_LR_2g_ms^4 + C_5C_LL_5L_Ls^4 + C_5C_LL_LR_2s^3 + C_5L_5R_2g_ms^2 + C_5L_5s^2 + 2C_5L_LR_2}$$

10.212 INVALID-ORDER-212 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + \frac{1}{C_5s},\ L_Ls + R_L + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2 + C_LR_Ls + 1\right)\left(C_2C_5L_5R_2s^3 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 - C_5R_2s + R_2g_m + 1\right)}{s\left(C_2C_5C_LL_5R_2s^3 + 4C_2C_5C_LL_LR_2s^3 + 4C_2C_5C_LR_2R_Ls^2 + 4C_2C_5R_2s + C_2C_LR_2s + C_5C_LL_5R_2g_ms^2 + C_5C_LL_5s^2 + 2C_5C_LL_LR_2g_ms^2 + 4C_5C_LL_Ls^2 + 2C_5C_LR_2R_Lg_m\right.}$$

10.213 INVALID-ORDER-213 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + \frac{1}{C_5s},\ \frac{1}{C_Ls+\frac{1}{R_L}+\frac{1}{L_Ls}}\right)$

$$H(s) = \frac{L_LR_Ls\left(C_2C_5L_5L\right.}{C_2C_5C_LL_5L_LR_2R_Ls^5 + C_2C_5L_5L_LR_2s^4 + C_2C_5L_5R_2R_Ls^3 + 4C_2C_5L_LR_2R_Ls^3 + C_2C_LL_LR_2R_Ls^3 + C_2L_LR_2s^2 + C_2R_2R_Ls + C_5C_LL_5L_LR_2R_Lg_ms^4 + C_5C_LL_5L_LR_Ls^4}$$

10.214 INVALID-ORDER-214 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + \frac{1}{C_5s},\ \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$

$$H(s) = \frac{\left(C_LL_LR_Ls^2 + L_Ls + R_L\right)\left(C_2C_5L_5R_2s^3 + C_2}{C_2C_5C_LL_5L_LR_2s^5 + 4C_2C_5C_LL_LR_2R_Ls^4 + C_2C_5L_5R_2s^3 + 4C_2C_5L_LR_2s^3 + 4C_2C_5R_2R_Ls^2 + C_2C_LL_LR_2s^3 + C_2R_2s + C_5C_LL_5L_LR_2g_ms^4 + C_5C_LL_5L_Ls^4 + 2C_5C_LL_LR}$$

10.215 INVALID-ORDER-215 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + \frac{1}{C_5s},\ \frac{R_L\left(L_Ls+\frac{1}{C_Ls}\right)}{L_Ls+R_L+\frac{1}{C_Ls}}\right)$

$$H(s) = \frac{R_L\left(C\right.}{C_2C_5C_LL_5L_LR_2s^5 + C_2C_5C_LL_5R_2R_Ls^4 + 4C_2C_5C_LL_LR_2R_Ls^4 + C_2C_5L_5R_2s^3 + 4C_2C_5R_2R_Ls^2 + C_2C_LL_LR_2s^3 + C_2C_LR_2R_Ls^2 + C_2R_2s + C_5C_LL_5L_LR_2g_ms^4 + C_5C_L}$$

10.216 INVALID-ORDER-216 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2L_5R_2s^2 - C_5L_5R_2s^2 + L_5R_2g_ms + L_5s - R_2\right)}{4C_2C_5L_5R_2R_Ls^3 + C_2L_5R_2s^2 + 4C_2R_2R_Ls + 2C_5L_5R_2R_Lg_ms^2 + C_5L_5R_2s^2 + 4C_5L_5R_Ls^2 + L_5R_2g_ms + L_5s + 2R_2R_Lg_m + R_2 + 4R_L}$$

10.217 INVALID-ORDER-217 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \frac{1}{C_Ls}\right)$

$$H(s) = \frac{C_2L_5R_2s^2 - C_5L_5R_2s^2 + L_5R_2g_ms + L_5s - R_2}{4C_2C_5L_5R_2s^3 + C_2C_LL_5R_2s^3 + 4C_2R_2s + C_5C_LL_5R_2s^3 + 2C_5L_5R_2g_ms^2 + 4C_5L_5s^2 + C_LL_5R_2g_ms^2 + C_LL_5s^2 + C_LR_2s + 2R_2g_m + 4}$$

10.218 INVALID-ORDER-218 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \frac{R_L}{C_LR_Ls+1}\right)$

$$H(s) = \frac{R_L\left(C_2L_5R_2s^2 - C_5L_5R_2s^2 + L_5R_2g_ms + L_5s - R_2\right)}{4C_2C_5L_5R_2R_Ls^3 + C_2C_LL_5R_2R_Ls^3 + C_2L_5R_2s^2 + 4C_2R_2R_Ls + C_5C_LL_5R_2R_Ls^3 + 2C_5L_5R_2R_Lg_ms^2 + C_5L_5R_2s^2 + 4C_5L_5R_Ls^2 + C_LL_5R_2R_Lg_ms^2 + C_LL_5R_Ls^2 + C_LR}$$

10.219 INVALID-ORDER-219 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ R_L + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(C_2L_5R_2s^2 - C_5L_5R_2s^2 + L_5R_2g_ms + L_5s - R_2\right)}{4C_2C_5C_LL_5R_2R_Ls^4 + 4C_2C_5L_5R_2s^3 + C_2C_LL_5R_2s^3 + 4C_2C_LR_2R_Ls^2 + 4C_2R_2s + 2C_5C_LL_5R_2R_Lg_ms^3 + C_5C_LL_5R_2s^3 + 4C_5C_LL_5R_Ls^3 + 2C_5L_5R_2g_ms^2 + 4C_5L_5s^2 + C}$$

10.220 INVALID-ORDER-220 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ L_Ls + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2+1\right)\left(C_2L_5R_2s^2 - C_5L_5R_2s^2 + L_5R_2g_ms + L_5s - R_2\right)}{4C_2C_5C_LL_5L_LR_2s^5 + 4C_2C_5L_5R_2s^3 + C_2C_LL_5R_2s^3 + 4C_2C_LL_LR_2s^3 + 4C_2R_2s + 2C_5C_LL_5L_LR_2g_ms^4 + 4C_5C_LL_5L_Ls^4 + C_5C_LL_5R_2s^3 + 2C_5L_5R_2g_ms^2 + 4C_5L_5s^2 + C}$$

10.221 INVALID-ORDER-221 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \frac{L_Ls}{C_LL_Ls^2+1}\right)$

$$H(s) = \frac{L_Ls\left(C_2L_5R_2s^2 - C_5L_5R_2s^2 + L_5R_2g_ms + L_5s - R_2\right)}{4C_2C_5L_5L_LR_2s^4 + C_2C_LL_5L_LR_2s^4 + C_2L_5R_2s^2 + 4C_2L_LR_2s^2 + C_5C_LL_5L_LR_2s^4 + 2C_5L_5L_LR_2g_ms^3 + 4C_5L_5L_Ls^3 + C_5L_5R_2s^2 + C_LL_5L_LR_2g_ms^3 + C_LL_5L_Ls^3 + C_LL}$$

10.222 INVALID-ORDER-222 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ L_Ls + R_L + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2 + C_LR_Ls + 1\right)\left(C_2L\right.}{4C_2C_5C_LL_5L_LR_2s^5 + 4C_2C_5C_LL_5R_2R_Ls^4 + 4C_2C_5L_5R_2s^3 + C_2C_LL_5R_2s^3 + 4C_2C_LL_LR_2s^3 + 4C_2C_LR_2R_Ls^2 + 4C_2R_2s + 2C_5C_LL_5L_LR_2g_ms^4 + 4C_5C_LL_5L_Ls^4 + 2C_5C}$$

10.223 INVALID-ORDER-223 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \frac{1}{C_Ls+\frac{1}{R_L}+\frac{1}{L_Ls}}\right)$

$$H(s) = \frac{L_LR_Ls\left(C_2L_5R_2s^2 - C_5L_5R\right.}{4C_2C_5L_5L_LR_2R_Ls^4 + C_2C_LL_5L_LR_2R_Ls^4 + C_2L_5L_LR_2s^3 + C_2L_5R_2R_Ls^2 + 4C_2L_LR_2R_Ls^2 + C_5C_LL_5L_LR_2R_Ls^4 + 2C_5L_5L_LR_2R_Lg_ms^3 + C_5L_5L_LR_2s^3 + 4C_5L_5L_LR_Ls^3}$$

10.224 INVALID-ORDER-224 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$

$$H(s) = \frac{}{4C_2C_5C_LL_5L_LR_2R_Ls^5 + 4C_2C_5L_5L_LR_2s^4 + 4C_2C_5L_5R_2R_Ls^3 + C_2C_LL_5L_LR_2s^4 + 4C_2C_LL_LR_2R_Ls^3 + C_2L_5R_2s^2 + 4C_2L_LR_2s^2 + 4C_2R_2R_Ls + 2C_5C_LL_5L_LR_2R_Lg_ms^4}$$

10.225 INVALID-ORDER-225 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \frac{R_L\left(L_Ls+\frac{1}{C_Ls}\right)}{L_Ls+R_L+\frac{1}{C_Ls}}\right)$

$$H(s) = \frac{}{4C_2C_5C_LL_5L_LR_2R_Ls^5 + 4C_2C_5L_5R_2R_Ls^3 + C_2C_LL_5L_LR_2s^4 + C_2C_LL_5R_2R_Ls^3 + 4C_2C_LL_LR_2R_Ls^3 + C_2L_5R_2s^2 + 4C_2R_2R_Ls + 2C_5C_LL_5L_LR_2R_Lg_ms^4 + C_5C_LL_5L_LR}$$

10.226 INVALID-ORDER-226 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_5R_2s^3 + C_2C_5R_2R_5s^2 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 + C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{C_2C_5L_5R_2s^3 + C_2C_5R_2R_5s^2 + 4C_2C_5R_2R_Ls^2 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 + C_5R_2R_5g_ms + 2C_5R_2R_Lg_ms + C_5R_2s + C_5R_5s + 4C_5R_Ls + R_2g_m + 1}$$

10.227 INVALID-ORDER-227 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \frac{1}{C_Ls}\right)$

$$H(s) = \frac{C_2C_5L_5R_2s^3 + C_2C_5R_2R_5s^2 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 + C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1}{s\left(C_2C_5C_LL_5R_2s^3 + C_2C_5C_LR_2R_5s^2 + 4C_2C_5R_2s + C_2C_LR_2s + C_5C_LL_5R_2g_ms^2 + C_5C_LL_5s^2 + C_5C_LR_2R_5g_ms + C_5C_LR_2s + C_5C_LR_5s + 2C_5R_2g_m + 4C_5 + C_LR_2g_m +}$$

10.228 INVALID-ORDER-228 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \frac{R_L}{C_LR_Ls+1}\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_5R_2s^3 + C_2C_5R_2R_5s^2 + C_2R_2s + C_5L_5R_2g_ms^2 +\right.}{C_2C_5C_LL_5R_2R_Ls^4 + C_2C_5C_LR_2R_5R_Ls^3 + C_2C_5L_5R_2s^3 + C_2C_5R_2R_5s^2 + 4C_2C_5R_2R_Ls^2 + C_2C_LR_2R_Ls^2 + C_2R_2s + C_5C_LL_5R_2R_Lg_ms^3 + C_5C_LL_5R_Ls^3 + C_5C_LR_2R_5R}$$

10.229 INVALID-ORDER-229 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ R_L + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(C_2C_5L_5R_2s^3 + C_2C_5R_2R_5s^2 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 + C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g\right.}{s\left(C_2C_5C_LL_5R_2s^3 + C_2C_5C_LR_2R_5s^2 + 4C_2C_5C_LR_2R_Ls^2 + 4C_2C_5R_2s + C_2C_LR_2s + C_5C_LL_5R_2g_ms^2 + C_5C_LL_5s^2 + C_5C_LR_2R_5g_ms + 2C_5C_LR_2R_Lg_ms + C_5C_LR_2s + C\right.}$$

10.230 INVALID-ORDER-230 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ L_Ls + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2+1\right)\left(C_2C_5L_5R_2s^3 + C_2C_5R_2R_5s^2 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 + C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2\right.}{s\left(C_2C_5C_LL_5R_2s^3 + 4C_2C_5C_LL_LR_2s^3 + C_2C_5C_LR_2R_5s^2 + 4C_2C_5R_2s + C_2C_LR_2s + C_5C_LL_5R_2g_ms^2 + C_5C_LL_5s^2 + 2C_5C_LL_LR_2g_ms^2 + 4C_5C_LL_Ls^2 + C_5C_LR_2R_5g_ms + \right.}$$

10.231 INVALID-ORDER-231 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \frac{L_Ls}{C_LL_Ls^2+1}\right)$

$$H(s) = \frac{L_Ls\left(C_2C_5L_5R_2s^3 + C_2C_5R_2R_5s^2 + C_2R_2s + C_5L_5R_2g_ms^2\right.}{C_2C_5C_LL_5L_LR_2s^5 + C_2C_5C_LL_LR_2R_5s^4 + C_2C_5L_5R_2s^3 + 4C_2C_5L_LR_2s^3 + C_2C_5R_2R_5s^2 + C_2C_LL_LR_2s^3 + C_2R_2s + C_5C_LL_5L_LR_2g_ms^4 + C_5C_LL_5L_Ls^4 + C_5C_LL_LR_2R_5$$

10.232 INVALID-ORDER-232 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ L_Ls + R_L + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2 + C_LR_Ls+1\right)\left(C_2C_5L_5R_2s^3 + C_2C_5R_2R_5s^2 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 + C_5R\right.}{s\left(C_2C_5C_LL_5R_2s^3 + 4C_2C_5C_LL_LR_2s^3 + C_2C_5C_LR_2R_5s^2 + 4C_2C_5C_LR_2R_Ls^2 + 4C_2C_5R_2s + C_2C_LR_2s + C_5C_LL_5R_2g_ms^2 + C_5C_LL_5s^2 + 2C_5C_LL_LR_2g_ms^2 + 4C_5C_LL_Ls^\right.}$$

10.233 INVALID-ORDER-233 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \frac{1}{C_Ls+\frac{1}{R_L}+\frac{1}{L_Ls}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_5L_LR_2R_Ls^5 + C_2C_5C_LL_LR_2R_5R_Ls^4 + C_2C_5L_5L_LR_2s^4 + C_2C_5L_5R_2R_Ls^3 + C_2C_5L_LR_2R_5s^3 + 4C_2C_5L_LR_2R_Ls^3 + C_2C_5R_2R_5R_Ls^2 + C_2C_LL_LR_2R_Ls^3 + C_2L_L$$

10.234 INVALID-ORDER-234 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$

$$H(s) = \frac{\left(C_LL_LR_Ls^2 + L\right.}{C_2C_5C_LL_5L_LR_2s^5 + C_2C_5C_LL_LR_2R_5s^4 + 4C_2C_5C_LL_LR_2R_Ls^4 + C_2C_5L_5R_2s^3 + 4C_2C_5L_LR_2s^3 + C_2C_5R_2R_5s^2 + 4C_2C_5R_2R_Ls^2 + C_2C_LL_LR_2s^3 + C_2R_2s + C_5C_LL_5L_L}$$

10.235 INVALID-ORDER-235 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \frac{R_L\left(L_Ls+\frac{1}{C_Ls}\right)}{L_Ls+R_L+\frac{1}{C_Ls}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_5L_LR_2s^5 + C_2C_5C_LL_5R_2R_Ls^4 + C_2C_5C_LL_LR_2R_5s^4 + 4C_2C_5C_LL_LR_2R_Ls^4 + C_2C_5C_LR_2R_5R_Ls^3 + C_2C_5L_5R_2s^3 + C_2C_5R_2R_5s^2 + 4C_2C_5R_2R_Ls^2 + C_2C_LL_LR}$$

10.236 INVALID-ORDER-236 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s+\frac{1}{R_5}+\frac{1}{L_5s}},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2L_5R_2R_5s^2 - C_5L_5R_2R_5s^2 + L_5R_2R_5g_ms - L_5R_2s + L_5R_5s - R_2R_5\right)}{4C_2C_5L_5R_2R_5R_Ls^3 + C_2L_5R_2R_5s^2 + 4C_2L_5R_2R_Ls^2 + 4C_2R_2R_5R_Ls + 2C_5L_5R_2R_5R_Lg_ms^2 + C_5L_5R_2R_5s^2 + 4C_5L_5R_5R_Ls^2 + L_5R_2R_5g_ms + 2L_5R_2R_Lg_ms + L_5R_2s + L}$$

10.237 INVALID-ORDER-237 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s+\frac{1}{R_5}+\frac{1}{L_5s}},\ \frac{1}{C_Ls}\right)$

$$H(s) = \frac{C_2L_5R_2R_5s^2 - C_5L_5R_2R_5s^2 + L_5R_2R_5g_ms - L_5R_2s + L_5R_5s - R_2R_5}{4C_2C_5L_5R_2R_5s^3 + C_2C_LL_5R_2R_5s^3 + 4C_2L_5R_2s^2 + 4C_2R_2R_5s + C_5C_LL_5R_2R_5s^3 + 2C_5L_5R_2R_5g_ms^2 + 4C_5L_5R_5s^2 + C_LL_5R_2R_5g_ms^2 + C_LL_5R_2s^2 + C_LL_5R_5s^2 + C_LR_2}$$

10.238 INVALID-ORDER-238 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s+\frac{1}{R_5}+\frac{1}{L_5s}},\ \frac{R_L}{C_LR_Ls+1}\right)$

$$H(s) = \frac{R_L\left(C_2L_5R_2R_5s^2 - C_5L_5R_2R_5s^2 + L_5R_\right.}{4C_2C_5L_5R_2R_5R_Ls^3 + C_2C_LL_5R_2R_5R_Ls^3 + C_2L_5R_2R_5s^2 + 4C_2L_5R_2R_Ls^2 + 4C_2R_2R_5R_Ls + C_5C_LL_5R_2R_5R_Ls^3 + 2C_5L_5R_2R_5R_Lg_ms^2 + C_5L_5R_2R_5s^2 + 4C_5L_5R_5R_Ls^2}$$

10.239 INVALID-ORDER-239 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s+\frac{1}{R_5}+\frac{1}{L_5s}},\ R_L+\frac{1}{C_Ls}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(C$$
$$4C_2C_5C_LL_5R_2R_5R_Ls^4 + 4C_2C_5L_5R_2R_5s^3 + C_2C_LL_5R_2R_5s^3 + 4C_2C_LL_5R_2R_Ls^3 + 4C_2C_LR_2R_5R_Ls^2 + 4C_2L_5R_2s^2 + 4C_2R_2R_5s + 2C_5C_LL_5R_2R_5R_Lg_ms^3 + C_5C_LL_5R_2$$

10.240 INVALID-ORDER-240 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s+\frac{1}{R_5}+\frac{1}{L_5s}},\ L_Ls+\frac{1}{C_Ls}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2+1\right)\left($$
$$4C_2C_5C_LL_5L_LR_2R_5s^5 + 4C_2C_5L_5R_2R_5s^3 + 4C_2C_LL_5L_LR_2s^4 + C_2C_LL_5R_2R_5s^3 + 4C_2C_LL_LR_2R_5s^3 + 4C_2L_5R_2s^2 + 4C_2R_2R_5s + 2C_5C_LL_5L_LR_2R_5g_ms^4 + 4C_5C_LL_5L_L$$

10.241 INVALID-ORDER-241 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s+\frac{1}{R_5}+\frac{1}{L_5s}},\ \frac{L_Ls}{C_LL_Ls^2+1}\right)$

$$H(s) = \frac{L_Ls\left(C_2L_5R_2R_5s^2 - C_5L_5R_2R_5s^2 + L_5\right.}{4C_2C_5L_5L_LR_2R_5s^4 + C_2C_LL_5L_LR_2R_5s^4 + 4C_2L_5L_LR_2s^3 + C_2L_5R_2R_5s^2 + 4C_2L_LR_2R_5s^2 + C_5C_LL_5L_LR_2R_5s^4 + 2C_5L_5L_LR_2R_5g_ms^3 + 4C_5L_5L_LR_5s^3 + C_5L_5R_2R_5s^2 +$$

10.242 INVALID-ORDER-242 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s+\frac{1}{R_5}+\frac{1}{L_5s}},\ L_Ls+R_L+\frac{1}{C_Ls}\right)$

$$H(s) = \frac{}{4C_2C_5C_LL_5L_LR_2R_5s^5 + 4C_2C_5C_LL_5R_2R_5R_Ls^4 + 4C_2C_5L_5R_2R_5s^3 + 4C_2C_LL_5L_LR_2s^4 + C_2C_LL_5R_2R_5s^3 + 4C_2C_LL_5R_2R_Ls^3 + 4C_2C_LL_LR_2R_5s^3 + 4C_2C_LR_2R_5R_Ls^2 +}$$

10.243 INVALID-ORDER-243 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s+\frac{1}{R_5}+\frac{1}{L_5s}},\ \frac{1}{C_Ls+\frac{1}{R_L}+\frac{1}{L_Ls}}\right)$

$$H(s) = \frac{}{4C_2C_5L_5L_LR_2R_5R_Ls^4 + C_2C_LL_5L_LR_2R_5R_Ls^4 + C_2L_5L_LR_2R_5s^3 + 4C_2L_5L_LR_2R_Ls^3 + C_2L_5R_2R_5R_Ls^2 + 4C_2L_LR_2R_5R_Ls^2 + C_5C_LL_5L_LR_2R_5R_Ls^4 + 2C_5L_5L_LR_2R_5R$$

10.244 INVALID-ORDER-244 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s+\frac{1}{R_5}+\frac{1}{L_5s}},\ \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$

$$H(s) = \frac{}{4C_2C_5C_LL_5L_LR_2R_5R_Ls^5 + 4C_2C_5L_5L_LR_2R_5s^4 + 4C_2C_5L_5R_2R_5R_Ls^3 + C_2C_LL_5L_LR_2R_5s^4 + 4C_2C_LL_5L_LR_2R_Ls^4 + 4C_2C_LL_LR_2R_5R_Ls^3 + 4C_2L_5L_LR_2s^3 + C_2L_5R_2R_5$$

10.245 INVALID-ORDER-245 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{1}{C_5s+\frac{1}{R_5}+\frac{1}{L_5s}},\ \frac{R_L\left(L_Ls+\frac{1}{C_Ls}\right)}{L_Ls+R_L+\frac{1}{C_Ls}}\right)$

$$H(s) = \frac{}{4C_2C_5C_LL_5L_LR_2R_5R_Ls^5 + 4C_2C_5L_5R_2R_5R_Ls^3 + C_2C_LL_5L_LR_2R_5s^4 + 4C_2C_LL_5L_LR_2R_Ls^4 + C_2C_LL_5R_2R_5R_Ls^3 + 4C_2C_LL_LR_2R_5R_Ls^3 + C_2L_5R_2R_5s^2 + 4C_2L_5R_2R_L$$

10.246 INVALID-ORDER-246 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1} + R_5,\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_5R_2R_5s^3 + C_2L_5R_2s^2 + C_2R_2R_5s + C_5L_5R_2R_5g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_5s^2 + L_5R_2g_ms + L_5s + R_2R_5g_m - R_2 + \right.}{C_2C_5L_5R_2R_5s^3 + 4C_2C_5L_5R_2R_Ls^3 + C_2L_5R_2s^2 + C_2R_2R_5s + 4C_2R_2R_Ls + C_5L_5R_2R_5g_ms^2 + 2C_5L_5R_2R_Lg_ms^2 + C_5L_5R_2s^2 + C_5L_5R_5s^2 + 4C_5L_5R_Ls^2 + L_5R_2g_ms + L$$

10.247 INVALID-ORDER-247 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1} + R_5,\ \frac{1}{C_Ls}\right)$

$$H(s) = \frac{C_2C_5L_5R_2R_5s^3 + C_2L_5R_2s^2 + C_2R_2R_5s + C_5L_5R_2R_5g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_5s^2 + L_5R_2g_ms + L_5s + R_2R_5g_m}{C_2C_5C_LL_5R_2R_5s^4 + 4C_2C_5L_5R_2s^3 + C_2C_LL_5R_2s^3 + C_2C_LR_2R_5s^2 + 4C_2R_2s + C_5C_LL_5R_2R_5g_ms^3 + C_5C_LL_5R_2s^3 + C_5C_LL_5R_5s^3 + 2C_5L_5R_2g_ms^2 + 4C_5L_5s^2 + C_LL_5R$$

10.248 INVALID-ORDER-248 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1} + R_5,\ \frac{R_L}{C_LR_Ls+1}\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_5R_2R_5s^3 + C_2L\right.}{C_2C_5C_LL_5R_2R_5R_Ls^4 + C_2C_5L_5R_2R_5s^3 + 4C_2C_5L_5R_2R_Ls^3 + C_2C_LL_5R_2R_Ls^3 + C_2C_LR_2R_5R_Ls^2 + C_2L_5R_2s^2 + C_2R_2R_5s + 4C_2R_2R_Ls + C_5C_LL_5R_2R_5R_Lg_ms^3 + C_5C$$

10.249 INVALID-ORDER-249 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1} + R_5,\ R_L + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(C_2C_5L_5R_2R_5s^3 + C_2L_5R_2s^2 + C_2R_2R_5s + C_5L_5R_2R_5\right.}{C_2C_5C_LL_5R_2R_5s^4 + 4C_2C_5C_LL_5R_2R_Ls^4 + 4C_2C_5L_5R_2s^3 + C_2C_LL_5R_2s^3 + C_2C_LR_2R_5s^2 + 4C_2C_LR_2R_Ls^2 + 4C_2R_2s + C_5C_LL_5R_2R_5g_ms^3 + 2C_5C_LL_5R_2R_Lg_ms^3 + C_5C$$

10.250 INVALID-ORDER-250 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1} + R_5,\ L_Ls + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2+1\right)\left(C_2C_5L_5R_2R_5s^3 + C_2L_5R_2s^2 + C_2R_2R_5s + C_5L_5R_2R\right.}{4C_2C_5C_LL_5L_LR_2s^5 + C_2C_5C_LL_5R_2R_5s^4 + 4C_2C_5L_5R_2s^3 + C_2C_LL_5R_2s^3 + 4C_2C_LL_LR_2s^3 + C_2C_LR_2R_5s^2 + 4C_2R_2s + 2C_5C_LL_5L_LR_2g_ms^4 + 4C_5C_LL_5L_Ls^4 + C_5C_LL_5$$

10.251 INVALID-ORDER-251 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1} + R_5,\ \frac{L_Ls}{C_LL_Ls^2+1}\right)$

$$H(s) = \frac{L_Ls\left(C_2C_5L_5R_2R_5s^3 + C\right.}{C_2C_5C_LL_5L_LR_2R_5s^5 + 4C_2C_5L_5L_LR_2s^4 + C_2C_5L_5R_2R_5s^3 + C_2C_LL_5L_LR_2s^4 + C_2C_LL_LR_2R_5s^3 + C_2L_5R_2s^2 + 4C_2L_LR_2s^2 + C_2R_2R_5s + C_5C_LL_5L_LR_2R_5g_ms^4 + C_5C_L$$

10.252 INVALID-ORDER-252 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1} + R_5,\ L_Ls + R_L + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2 + C_LR_Ls\right.}{4C_2C_5C_LL_5L_LR_2s^5 + C_2C_5C_LL_5R_2R_5s^4 + 4C_2C_5C_LL_5R_2R_Ls^4 + 4C_2C_5L_5R_2s^3 + C_2C_LL_5R_2s^3 + 4C_2C_LL_LR_2s^3 + C_2C_LR_2R_5s^2 + 4C_2C_LR_2R_Ls^2 + 4C_2R_2s + 2C_5C_LL$$

10.253 INVALID-ORDER-253 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1} + R_5,\ \frac{1}{C_Ls+\frac{1}{R_L}+\frac{1}{L_Ls}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_5L_LR_2R_5R_Ls^5 + C_2C_5L_5L_LR_2R_5s^4 + 4C_2C_5L_5L_LR_2R_Ls^4 + C_2C_5L_5R_2R_5R_Ls^3 + C_2C_LL_5L_LR_2R_Ls^4 + C_2C_LL_LR_2R_5R_Ls^3 + C_2L_5L_LR_2s^3 + C_2L_5R_2R_Ls^2 +}$$

10.254 INVALID-ORDER-254 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1} + R_5,\ \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$

$$H(s) = \frac{}{C_2C_5C_LL_5L_LR_2R_5s^5 + 4C_2C_5C_LL_5L_LR_2R_Ls^5 + 4C_2C_5L_5L_LR_2s^4 + C_2C_5L_5R_2R_5s^3 + 4C_2C_5L_5R_2R_Ls^3 + C_2C_LL_5L_LR_2s^4 + C_2C_LL_LR_2R_5s^3 + 4C_2C_LL_LR_2R_Ls^3 + C_2$$

10.255 INVALID-ORDER-255 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1} + R_5,\ \frac{R_L\left(L_Ls+\frac{1}{C_Ls}\right)}{L_Ls+R_L+\frac{1}{C_Ls}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_5L_LR_2R_5s^5 + 4C_2C_5C_LL_5L_LR_2R_Ls^5 + C_2C_5C_LL_5R_2R_5R_Ls^4 + C_2C_5L_5R_2R_5s^3 + 4C_2C_5L_5R_2R_Ls^3 + C_2C_LL_5L_LR_2s^4 + C_2C_LL_5R_2R_Ls^3 + C_2C_LL_LR_2R_5s^3 +$$

10.256 INVALID-ORDER-256 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5\left(L_5s+\frac{1}{C_5s}\right)}{L_5s+R_5+\frac{1}{C_5s}},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_5R_2R_5s^3 + C_2R_2R_5s + C_5L_5R_2R_5g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_5s^2 - C_5R_2R_5s + R_2R_5g_m -\right.}{C_2C_5L_5R_2R_5s^3 + 4C_2C_5L_5R_2R_Ls^3 + 4C_2C_5R_2R_5R_Ls^2 + C_2R_2R_5s + 4C_2R_2R_Ls + C_5L_5R_2R_5g_ms^2 + 2C_5L_5R_2R_Lg_ms^2 + C_5L_5R_2s^2 + C_5L_5R_5s^2 + 4C_5L_5R_Ls^2 + 2C_5R_2$$

10.257 INVALID-ORDER-257 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5\left(L_5s+\frac{1}{C_5s}\right)}{L_5s+R_5+\frac{1}{C_5s}},\ \frac{1}{C_Ls}\right)$

$$H(s) = \frac{C_2C_5L_5R_2R_5s^3 + C_2R_2R_5s + C_5L_5R_2R_5g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_5s^2 - C_5R_2R_5s + R_2R_5g_m +}{C_2C_5C_LL_5R_2R_5s^4 + 4C_2C_5L_5R_2s^3 + 4C_2C_5R_2R_5s^2 + C_2C_LR_2R_5s^2 + 4C_2R_2s + C_5C_LL_5R_2R_5g_ms^3 + C_5C_LL_5R_2s^3 + C_5C_LL_5R_5s^3 + C_5C_LR_2R_5s^2 + 2C_5L_5R_2g_ms^2 + 4$$

10.258 INVALID-ORDER-258 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5\left(L_5s+\frac{1}{C_5s}\right)}{L_5s+R_5+\frac{1}{C_5s}},\ \frac{R_L}{C_LR_Ls+1}\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_5R_2R\right.}{C_2C_5C_LL_5R_2R_5R_Ls^4 + C_2C_5L_5R_2R_5s^3 + 4C_2C_5L_5R_2R_Ls^3 + 4C_2C_5R_2R_5R_Ls^2 + C_2C_LR_2R_5R_Ls^2 + C_2R_2R_5s + 4C_2R_2R_Ls + C_5C_LL_5R_2R_5R_Lg_ms^3 + C_5C_LL_5R_2R_Ls^3$$

10.259 INVALID-ORDER-259 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5\left(L_5s+\frac{1}{C_5s}\right)}{L_5s+R_5+\frac{1}{C_5s}},\ R_L+\frac{1}{C_Ls}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(C_2C\right.}{C_2C_5C_LL_5R_2R_5s^4+4C_2C_5C_LL_5R_2R_Ls^4+4C_2C_5C_LR_2R_5R_Ls^3+4C_2C_5L_5R_2s^3+4C_2C_5R_2R_5s^2+C_2C_LR_2R_5s^2+4C_2C_LR_2R_Ls^2+4C_2R_2s+C_5C_LL_5R_2R_5g_ms^3+2C}$$

10.260 INVALID-ORDER-260 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5\left(L_5s+\frac{1}{C_5s}\right)}{L_5s+R_5+\frac{1}{C_5s}},\ L_Ls+\frac{1}{C_Ls}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2+1\right)\left(C_2\right.}{4C_2C_5C_LL_5L_LR_2s^5+C_2C_5C_LL_5R_2R_5s^4+4C_2C_5C_LL_LR_2R_5s^4+4C_2C_5L_5R_2s^3+4C_2C_5R_2R_5s^2+4C_2C_LL_LR_2s^3+C_2C_LR_2R_5s^2+4C_2R_2s+2C_5C_LL_5L_LR_2g_ms^4+4C}$$

10.261 INVALID-ORDER-261 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5\left(L_5s+\frac{1}{C_5s}\right)}{L_5s+R_5+\frac{1}{C_5s}},\ \frac{L_Ls}{C_LL_Ls^2+1}\right)$

$$H(s) = \frac{L_Ls\left(C_2C_5L_5R\right.}{C_2C_5C_LL_5L_LR_2R_5s^5+4C_2C_5L_5L_LR_2s^4+C_2C_5L_5R_2R_5s^3+4C_2C_5L_LR_2R_5s^3+C_2C_LL_LR_2R_5s^3+4C_2L_LR_2s^2+C_2R_2R_5s+C_5C_LL_5L_LR_2R_5g_ms^4+C_5C_LL_5L_LR_2s^4}$$

10.262 INVALID-ORDER-262 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5\left(L_5s+\frac{1}{C_5s}\right)}{L_5s+R_5+\frac{1}{C_5s}},\ L_Ls+R_L+\frac{1}{C_Ls}\right)$

$$H(s) = \frac{}{4C_2C_5C_LL_5L_LR_2s^5+C_2C_5C_LL_5R_2R_5s^4+4C_2C_5C_LL_5R_2R_Ls^4+4C_2C_5C_LL_LR_2R_5s^4+4C_2C_5C_LR_2R_5R_Ls^3+4C_2C_5L_5R_2s^3+4C_2C_5R_2R_5s^2+4C_2C_LL_LR_2s^3+C_2C_L}$$

10.263 INVALID-ORDER-263 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5\left(L_5s+\frac{1}{C_5s}\right)}{L_5s+R_5+\frac{1}{C_5s}},\ \frac{1}{C_Ls+\frac{1}{R_L}+\frac{1}{L_Ls}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_5L_LR_2R_5R_Ls^5+C_2C_5L_5L_LR_2R_5s^4+4C_2C_5L_5L_LR_2R_Ls^4+C_2C_5L_5R_2R_5R_Ls^3+4C_2C_5L_LR_2R_5R_Ls^3+C_2C_LL_LR_2R_5R_Ls^3+C_2L_LR_2R_5s^2+4C_2L_LR_2R_Ls^2}$$

10.264 INVALID-ORDER-264 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5\left(L_5s+\frac{1}{C_5s}\right)}{L_5s+R_5+\frac{1}{C_5s}},\ \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$

$$H(s) = \frac{}{C_2C_5C_LL_5L_LR_2R_5s^5 + 4C_2C_5C_LL_5L_LR_2R_Ls^5 + 4C_2C_5C_LL_LR_2R_5R_Ls^4 + 4C_2C_5L_5L_LR_2s^4 + C_2C_5L_5R_2R_5s^3 + 4C_2C_5L_5R_2R_Ls^3 + 4C_2C_5L_LR_2R_5s^3 + 4C_2C_5R_2R_5R_L}$$

10.265 INVALID-ORDER-265 $Z(s) = \left(\infty,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \frac{R_5\left(L_5s+\frac{1}{C_5s}\right)}{L_5s+R_5+\frac{1}{C_5s}},\ \frac{R_L\left(L_Ls+\frac{1}{C_Ls}\right)}{L_Ls+R_L+\frac{1}{C_Ls}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_5L_LR_2R_5s^5 + 4C_2C_5C_LL_5L_LR_2R_Ls^5 + C_2C_5C_LL_5R_2R_5R_Ls^4 + 4C_2C_5C_LL_LR_2R_5R_Ls^4 + C_2C_5L_5R_2R_5s^3 + 4C_2C_5L_5R_2R_Ls^3 + 4C_2C_5R_2R_5R_Ls^2 + C_2C_LL_LR}$$

10.266 INVALID-ORDER-266 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2s},\ \infty,\ \infty,\ R_5,\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2R_2R_5g_ms - C_2R_2s + C_2R_5s + R_5g_m - 1\right)}{C_2R_2R_5g_ms + 2C_2R_2R_Lg_ms + C_2R_2s + C_2R_5s + 4C_2R_Ls + R_5g_m + 2R_Lg_m + 1}$$

10.267 INVALID-ORDER-267 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2s},\ \infty,\ \infty,\ R_5,\ L_Ls + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2 + 1\right)\left(C_2R_2R_5g_ms - C_2R_2s + C_2R_5s + R_5g_m - 1\right)}{2C_2C_LL_LR_2g_ms^3 + 4C_2C_LL_Ls^3 + C_2C_LR_2R_5g_ms^2 + C_2C_LR_2s^2 + C_2C_LR_5s^2 + 2C_2R_2g_ms + 4C_2s + 2C_LL_Lg_ms^2 + C_LR_5g_ms + C_Ls + 2g_m}$$

10.268 INVALID-ORDER-268 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2s},\ \infty,\ \infty,\ R_5,\ \frac{L_Ls}{C_LL_Ls^2+1}\right)$

$$H(s) = \frac{L_Ls\left(C_2R_2R_5g_ms - C_2R_2s + C_2R_5s + R_5g_m - 1\right)}{C_2C_LL_LR_2R_5g_ms^3 + C_2C_LL_LR_2s^3 + C_2C_LL_LR_5s^3 + 2C_2L_LR_2g_ms^2 + 4C_2L_Ls^2 + C_2R_2R_5g_ms + C_2R_2s + C_2R_5s + C_LL_LR_5g_ms^2 + C_LL_Ls^2 + 2L_Lg_ms + R_5g_m + 1}$$

10.269 INVALID-ORDER-269 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s + R_5 g_m - 1\right)}{2C_2 C_L L_L R_2 g_m s^3 + 4C_2 C_L L_L s^3 + C_2 C_L R_2 R_5 g_m s^2 + 2C_2 C_L R_2 R_L g_m s^2 + C_2 C_L R_2 s^2 + C_2 C_L R_5 s^2 + 4C_2 C_L R_L s^2 + 2C_2 R_2 g_m s + 4C_2 s + 2C_L L_L g_m s^2 + C_L R_5 g_m s + 2C_L$$

10.270 INVALID-ORDER-270 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s\left(C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s + R_5 g_m - 1\right)}{C_2 C_L L_L R_2 R_5 R_L g_m s^3 + C_2 C_L L_L R_2 R_L s^3 + C_2 C_L L_L R_5 R_L s^3 + C_2 L_L R_2 R_5 g_m s^2 + 2C_2 L_L R_2 R_L g_m s^2 + C_2 L_L R_2 s^2 + C_2 L_L R_5 s^2 + 4C_2 L_L R_L s^2 + C_2 R_2 R_5 R_L g_m s + C_2 R_2 R$$

10.271 INVALID-ORDER-271 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{\left(C_L L_L R_L s^2 + L_L s + R_L\right)\left(C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s + R_5 g_m - 1\right)}{C_2 C_L L_L R_2 R_5 g_m s^3 + 2C_2 C_L L_L R_2 R_L g_m s^3 + C_2 C_L L_L R_2 s^3 + C_2 C_L L_L R_5 s^3 + 4C_2 C_L L_L R_L s^3 + 2C_2 L_L R_2 g_m s^2 + 4C_2 L_L s^2 + C_2 R_2 R_5 g_m s + 2C_2 R_2 R_L g_m s + C_2 R_2 s + C_2 R$$

10.272 INVALID-ORDER-272 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{R_L\left(C_L L_L s^2 + 1\right)\left(C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s\right.}{C_2 C_L L_L R_2 R_5 g_m s^3 + 2C_2 C_L L_L R_2 R_L g_m s^3 + C_2 C_L L_L R_2 s^3 + C_2 C_L L_L R_5 s^3 + 4C_2 C_L L_L R_L s^3 + C_2 C_L R_2 R_5 R_L g_m s^2 + C_2 C_L R_2 R_L s^2 + C_2 C_L R_5 R_L s^2 + C_2 R_2 R_5 g_m s + 2C_2$$

10.273 INVALID-ORDER-273 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2 C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m}{s\left(C_2 C_5 C_L R_2 s^2 + 2C_2 C_5 R_2 g_m s + 4C_2 C_5 s + C_2 C_L R_2 g_m s + C_2 C_L s + C_5 C_L s + 2C_5 g_m + C_L g_m\right)}$$

10.274 INVALID-ORDER-274 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L \left(-C_2 C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m\right)}{C_2 C_5 C_L R_2 R_L s^3 + 2C_2 C_5 R_2 R_L g_m s^2 + C_2 C_5 R_2 s^2 + 4C_2 C_5 R_L s^2 + C_2 C_L R_2 R_L g_m s^2 + C_2 C_L R_L s^2 + C_2 R_2 g_m s + C_2 s + C_5 C_L R_L s^2 + 2C_5 R_L g_m s + C_5 s + C_L R_L g_m s + g_m}$$

10.275 INVALID-ORDER-275 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1)\left(-C_2 C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m\right)}{s\left(2C_2 C_5 C_L R_2 R_L g_m s^2 + C_2 C_5 C_L R_2 s^2 + 4C_2 C_5 C_L R_L s^2 + 2C_2 C_5 R_2 g_m s + 4C_2 C_5 s + C_2 C_L R_2 g_m s + C_2 C_L s + 2C_5 C_L R_L g_m s + C_5 C_L s + 2C_5 g_m + C_L g_m\right)}$$

10.276 INVALID-ORDER-276 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(-C_2 C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m\right)}{s\left(2C_2 C_5 C_L L_L R_2 g_m s^3 + 4C_2 C_5 C_L L_L s^3 + C_2 C_5 C_L R_2 s^2 + 2C_2 C_5 R_2 g_m s + 4C_2 C_5 s + C_2 C_L R_2 g_m s + C_2 C_L s + 2C_5 C_L L_L g_m s^2 + C_5 C_L s + 2C_5 g_m + C_L g_m\right)}$$

10.277 INVALID-ORDER-277 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s \left(-C_2 C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m\right)}{C_2 C_5 C_L L_L R_2 s^4 + 2C_2 C_5 L_L R_2 g_m s^3 + 4C_2 C_5 L_L s^3 + C_2 C_5 R_2 s^2 + C_2 C_L L_L R_2 g_m s^3 + C_2 C_L L_L s^3 + C_2 R_2 g_m s + C_2 s + C_5 C_L L_L s^3 + 2C_5 L_L g_m s^2 + C_5 s + C_L L_L g_m s^2 + g_m}$$

10.278 INVALID-ORDER-278 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(-C_2 C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m\right)}{s\left(2C_2 C_5 C_L L_L R_2 g_m s^3 + 4C_2 C_5 C_L L_L s^3 + 2C_2 C_5 C_L R_2 R_L g_m s^2 + C_2 C_5 C_L R_2 s^2 + 4C_2 C_5 C_L R_L s^2 + 2C_2 C_5 R_2 g_m s + 4C_2 C_5 s + C_2 C_L R_2 g_m s + C_2 C_L s + 2C_5 C_L L_L g_m s^2 + 2\right.}$$

10.279 INVALID-ORDER-279 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s \left(-C_2 C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m\right)}{C_2 C_5 C_L L_L R_2 R_L s^4 + 2 C_2 C_5 L_L R_2 R_L g_m s^3 + C_2 C_5 L_L R_2 s^3 + 4 C_2 C_5 L_L R_L s^3 + C_2 C_5 R_2 R_L s^2 + C_2 C_L L_L R_2 R_L g_m s^3 + C_2 C_L L_L R_L s^3 + C_2 L_L R_2 g_m s^2 + C_2 L_L s^2 + C_2 R_2 R_L}$$

10.280 INVALID-ORDER-280 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{\left(C_L L_L R_L s^2 + L_L s + R_L\right)\left(-C_2 C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 s - C\right.}{2 C_2 C_5 C_L L_L R_2 R_L g_m s^4 + C_2 C_5 C_L L_L R_2 s^4 + 4 C_2 C_5 C_L L_L R_L s^4 + 2 C_2 C_5 L_L R_2 g_m s^3 + 4 C_2 C_5 L_L s^3 + 2 C_2 C_5 R_2 R_L g_m s^2 + C_2 C_5 R_2 s^2 + 4 C_2 C_5 R_L s^2 + C_2 C_L L_L R_2 g_m s^3 + C_2}$$

10.281 INVALID-ORDER-281 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{R_L\left(C_L L_L s^2 + 1\right)\left(-C_2 C_5 R_2 s^2 + C_2 R_2 g_m s\right.}{2 C_2 C_5 C_L L_L R_2 R_L g_m s^4 + C_2 C_5 C_L L_L R_2 s^4 + 4 C_2 C_5 C_L L_L R_L s^4 + C_2 C_5 C_L R_2 R_L s^3 + 2 C_2 C_5 R_2 R_L g_m s^2 + C_2 C_5 R_2 s^2 + 4 C_2 C_5 R_L s^2 + C_2 C_L L_L R_2 g_m s^3 + C_2 C_L L_L s^3 + C_2 C}$$

10.282 INVALID-ORDER-282 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2 C_5 R_2 R_5 s^2 + C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1}{C_2 C_5 C_L R_2 R_5 s^3 + 2 C_2 C_5 R_2 R_5 g_m s^2 + 4 C_2 C_5 R_5 s^2 + C_2 C_L R_2 R_5 g_m s^2 + C_2 C_L R_2 s^2 + C_2 C_L R_5 s^2 + 2 C_2 R_2 g_m s + 4 C_2 s + C_5 C_L R_5 s^2 + 2 C_5 R_5 g_m s + C_L R_5 g_m s + C_L s + 2 g_m}$$

10.283 INVALID-ORDER-283 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{R_L\left(-C_2 C_5 R_2 R_5 s^2 + C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s - C_5 R_5 s + R\right.}{C_2 C_5 C_L R_2 R_5 R_L s^3 + 2 C_2 C_5 R_2 R_5 R_L g_m s^2 + C_2 C_5 R_2 R_5 s^2 + 4 C_2 C_5 R_5 R_L s^2 + C_2 C_L R_2 R_5 R_L g_m s^2 + C_2 C_L R_2 R_L s^2 + C_2 C_L R_5 R_L s^2 + C_2 R_2 R_5 g_m s + 2 C_2 R_2 R_L g_m s + C_2 R_2}$$

10.284 INVALID-ORDER-284 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{(C_L R_L s + 1)\left(C_2 C_5 R_2 R_5 s^2 - C_2 R_2 R_5 g_m s + C_2 R_2 s - C_2 R_5 s + C_5\right.}{2C_2C_5C_LR_2R_5R_Lg_ms^3 + C_2C_5C_LR_2R_5s^3 + 4C_2C_5C_LR_5R_Ls^3 + 2C_2C_5R_2R_5g_ms^2 + 4C_2C_5R_5s^2 + C_2C_LR_2R_5g_ms^2 + 2C_2C_LR_2R_Lg_ms^2 + C_2C_LR_2s^2 + C_2C_LR_5s^2 + 4C}$$

10.285 INVALID-ORDER-285 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 R_2 R_5 s^2 - C_2 R_2 R_5 g_m s + C_2 R_2 s - C_2 R_5 s + C_5\right.}{2C_2C_5C_LL_LR_2R_5g_ms^4 + 4C_2C_5C_LL_LR_5s^4 + C_2C_5C_LR_2R_5s^3 + 2C_2C_5R_2R_5g_ms^2 + 4C_2C_5R_5s^2 + 2C_2C_LL_LR_2g_ms^3 + 4C_2C_LL_Ls^3 + C_2C_LR_2R_5g_ms^2 + C_2C_LR_2s^2 + C}$$

10.286 INVALID-ORDER-286 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(-C_2 C_5 R_2 R_5 s^2 + C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s - C_5 R_5 s +\right.}{C_2C_5C_LL_LR_2R_5s^4 + 2C_2C_5L_LR_2R_5g_ms^3 + 4C_2C_5L_LR_5s^3 + C_2C_5R_2R_5s^2 + C_2C_LL_LR_2R_5g_ms^3 + C_2C_LL_LR_2s^3 + C_2C_LL_LR_5s^3 + 2C_2L_LR_2g_ms^2 + 4C_2L_Ls^2 + C_2R_2R_5}$$

10.287 INVALID-ORDER-287 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{\left(C_L L_L s^2 + C_L\right.}{2C_2C_5C_LL_LR_2R_5g_ms^4 + 4C_2C_5C_LL_LR_5s^4 + 2C_2C_5C_LR_2R_5R_Lg_ms^3 + C_2C_5C_LR_2R_5s^3 + 4C_2C_5C_LR_5R_Ls^3 + 2C_2C_5R_2R_5g_ms^2 + 4C_2C_5R_5s^2 + 2C_2C_LL_LR_2g_ms^3 + 4C}$$

10.288 INVALID-ORDER-288 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_LR_2R_5R_Ls^4 + 2C_2C_5L_LR_2R_5R_Lg_ms^3 + C_2C_5L_LR_2R_5s^3 + 4C_2C_5L_LR_5R_Ls^3 + C_2C_5R_2R_5R_Ls^2 + C_2C_LL_LR_2R_5R_Lg_ms^3 + C_2C_LL_LR_2R_Ls^3 + C_2C_LL_LR_5R_Ls^3}$$

10.289 INVALID-ORDER-289 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = -\frac{2C_2C_5C_LL_LR_2R_5R_Lg_ms^4 + C_2C_5C_LL_LR_2R_5s^4 + 4C_2C_5C_LL_LR_5R_Ls^4 + 2C_2C_5L_LR_2R_5g_ms^3 + 4C_2C_5L_LR_5s^3 + 2C_2C_5R_2R_5R_Lg_ms^2 + C_2C_5R_2R_5s^2 + 4C_2C_5R_5R_Ls^2}{}$$

10.290 INVALID-ORDER-290 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = -\frac{2C_2C_5C_LL_LR_2R_5R_Lg_ms^4 + C_2C_5C_LL_LR_2R_5s^4 + 4C_2C_5C_LL_LR_5R_Ls^4 + C_2C_5C_LR_2R_5R_Ls^3 + 2C_2C_5R_2R_5R_Lg_ms^2 + C_2C_5R_2R_5s^2 + 4C_2C_5R_5R_Ls^2 + C_2C_LL_LR_2R_5g_}{}$$

10.291 INVALID-ORDER-291 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5R_2R_5g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_5s^2 + C_2R_2g_ms + C_2s + C_5R_5g_ms - C_5s + g_m}{s\left(C_2C_5C_LR_2R_5g_ms^2 + C_2C_5C_LR_2s^2 + C_2C_5C_LR_5s^2 + 2C_2C_5R_2g_ms + 4C_2C_5s + C_2C_LR_2g_ms + C_2C_Ls + C_5C_LR_5g_ms + C_5C_Ls + 2C_5g_m + C_Lg_m\right)}$$

10.292 INVALID-ORDER-292 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(C_2C_5R_2R_5g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_5s^2 + C_2R_2g_ms + C_2s + C_5R_5g_ms\right.}{C_2C_5C_LR_2R_5R_Lg_ms^3 + C_2C_5C_LR_2R_Ls^3 + C_2C_5C_LR_5R_Ls^3 + C_2C_5R_2R_5g_ms^2 + 2C_2C_5R_2R_Lg_ms^2 + C_2C_5R_2s^2 + C_2C_5R_5s^2 + 4C_2C_5R_Ls^2 + C_2C_LR_2R_Lg_ms^2 + C_2C_LR}$$

10.293 INVALID-ORDER-293 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(C_2C_5R_2R_5g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_5s^2 + C_2R_2g_ms + C_2s + C_5R_5g_ms - C_5s + g_m\right)}{s\left(C_2C_5C_LR_2R_5g_ms^2 + 2C_2C_5C_LR_2R_Lg_ms^2 + C_2C_5C_LR_2s^2 + C_2C_5C_LR_5s^2 + 4C_2C_5C_LR_Ls^2 + 2C_2C_5R_2g_ms + 4C_2C_5s + C_2C_LR_2g_ms + C_2C_Ls + C_5C_LR_5g_ms + 2C_5C_L}$$

10.294 INVALID-ORDER-294 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 R_2 R_5 g_m s^2 - C_2 C_5 R_2 s^2 + C_2 C_5 R_5 s^2 + C_2 R_2 g_m s + C_2 s + C_5 R_5 g_m s - C_5 s + g_m\right)}{s\left(2C_2 C_5 C_L L_L R_2 g_m s^3 + 4C_2 C_5 C_L L_L s^3 + C_2 C_5 C_L R_2 R_5 g_m s^2 + C_2 C_5 C_L R_2 s^2 + C_2 C_5 C_L R_5 s^2 + 2C_2 C_5 R_2 g_m s + 4C_2 C_5 s + C_2 C_L R_2 g_m s + C_2 C_L s + 2C_5 C_L L_L g_m s^2 + C_5 C\right.}$$

10.295 INVALID-ORDER-295 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L s\left(C_2 C_5 R_2 R_5 g_m s^2 - C_2 C_5 R_2 s^2 + C_2 C_5 R_5 s^2 + C_2 R_2 g_m s + C_2 s + C_5 R_5 g_m\right.}{C_2 C_5 C_L L_L R_2 R_5 g_m s^4 + C_2 C_5 C_L L_L R_2 s^4 + C_2 C_5 C_L L_L R_5 s^4 + 2C_2 C_5 L_L R_2 g_m s^3 + 4C_2 C_5 L_L s^3 + C_2 C_5 R_2 R_5 g_m s^2 + C_2 C_5 R_2 s^2 + C_2 C_5 R_5 s^2 + C_2 C_L L_L R_2 g_m s^3 + C_2 C_L L_L$$

10.296 INVALID-ORDER-296 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_2 C_5 R_2 R_5 g_m s^2 - C_2 C_5 R_2 s^2 + C_2 C_5 R_5 s^2 + C_2 R_2 g_m s + C_2 s + C_5 R\right.}{s\left(2C_2 C_5 C_L L_L R_2 g_m s^3 + 4C_2 C_5 C_L L_L s^3 + C_2 C_5 C_L R_2 R_5 g_m s^2 + 2C_2 C_5 C_L R_2 R_L g_m s^2 + C_2 C_5 C_L R_2 s^2 + C_2 C_5 C_L R_5 s^2 + 4C_2 C_5 C_L R_L s^2 + 2C_2 C_5 R_2 g_m s + 4C_2 C_5 s + C_2 C_L\right.}$$

10.297 INVALID-ORDER-297 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_L R_2 R_5 R_L g_m s^4 + C_2 C_5 C_L L_L R_2 R_L s^4 + C_2 C_5 C_L L_L R_5 R_L s^4 + C_2 C_5 L_L R_2 R_5 g_m s^3 + 2C_2 C_5 L_L R_2 R_L g_m s^3 + C_2 C_5 L_L R_2 s^3 + C_2 C_5 L_L R_5 s^3 + 4C_2 C_5 L_L R_L s^3 + C_2 C$$

10.298 INVALID-ORDER-298 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{\left(C_L L_L R_L s^2 + L_L s + R_L\right)\left(C_2\right.}{C_2 C_5 C_L L_L R_2 R_5 g_m s^4 + 2C_2 C_5 C_L L_L R_2 R_L g_m s^4 + C_2 C_5 C_L L_L R_2 s^4 + C_2 C_5 C_L L_L R_5 s^4 + 4C_2 C_5 C_L L_L R_L s^4 + 2C_2 C_5 L_L R_2 g_m s^3 + 4C_2 C_5 L_L s^3 + C_2 C_5 R_2 R_5 g_m s^2 + 2C_2 C_5 R$$

10.299 INVALID-ORDER-299 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_LR_2R_5g_ms^4 + 2C_2C_5C_LL_LR_2R_Lg_ms^4 + C_2C_5C_LL_LR_2s^4 + C_2C_5C_LL_LR_5s^4 + 4C_2C_5C_LL_LR_Ls^4 + C_2C_5C_LR_2R_5R_Lg_ms^3 + C_2C_5C_LR_2R_Ls^3 + C_2C_5C_LR_5R_Ls^3}$$

10.300 INVALID-ORDER-300 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 - C_2C_5R_2s^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^2 - C_5s + g_m\right)}{C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 + 2C_2C_5R_2R_Lg_ms^2 + C_2C_5R_2s^2 + 4C_2C_5R_Ls^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^2 + 2C_5R_Lg_ms + C_5s + g_m}$$

10.301 INVALID-ORDER-301 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 - C_2C_5R_2s^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^2 - C_5s + g_m}{s\left(C_2C_5C_LL_5R_2g_ms^3 + C_2C_5C_LL_5s^3 + C_2C_5C_LR_2s^2 + 2C_2C_5R_2g_ms + 4C_2C_5s + C_2C_LR_2g_ms + C_2C_Ls + C_5C_LL_5g_ms^2 + C_5C_Ls + 2C_5g_m + C_Lg_m\right)}$$

10.302 INVALID-ORDER-302 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 - C_2C_5R_2s^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^}{C_2C_5C_LL_5R_2R_Lg_ms^4 + C_2C_5C_LL_5R_Ls^4 + C_2C_5C_LR_2R_Ls^3 + C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 + 2C_2C_5R_2R_Lg_ms^2 + C_2C_5R_2s^2 + 4C_2C_5R_Ls^2 + C_2C_LR_2R_Lg_ms^2 + C_2C_LR_}$$

10.303 INVALID-ORDER-303 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_LR_Ls + 1)\left(C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 - C_2C_5R_2s^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^2 - C_5s + g_m\right)}{s\left(C_2C_5C_LL_5R_2g_ms^3 + C_2C_5C_LL_5s^3 + 2C_2C_5C_LR_2R_Lg_ms^2 + C_2C_5C_LR_2s^2 + 4C_2C_5C_LR_Ls^2 + 2C_2C_5R_2g_ms + 4C_2C_5s + C_2C_LR_2g_ms + C_2C_Ls + C_5C_LL_5g_ms^2 + 2C_5C_}$$

10.304 INVALID-ORDER-304 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 - C_2 C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{s\left(C_2 C_5 C_L L_5 R_2 g_m s^3 + C_2 C_5 C_L L_5 s^3 + 2C_2 C_5 C_L L_L R_2 g_m s^3 + 4C_2 C_5 C_L L_L s^3 + C_2 C_5 C_L R_2 s^2 + 2C_2 C_5 R_2 g_m s + 4C_2 C_5 s + C_2 C_L R_2 g_m s + C_2 C_L s + C_5 C_L L_5 g_m s^2 + 2C_5 C_L\right.}$$

10.305 INVALID-ORDER-305 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L s\left(C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 - C_2 C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 s + C_5 L_5 g_m s\right.}{C_2 C_5 C_L L_5 L_L R_2 g_m s^5 + C_2 C_5 C_L L_5 L_L s^5 + C_2 C_5 C_L L_L R_2 s^4 + C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 + 2C_2 C_5 L_L R_2 g_m s^3 + 4C_2 C_5 L_L s^3 + C_2 C_5 R_2 s^2 + C_2 C_L L_L R_2 g_m s^3 + C_2 C_L L_L s^{\left.\right.}}$$

10.306 INVALID-ORDER-306 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 - C_2 C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 s + C_5 L_5\right.}{s\left(C_2 C_5 C_L L_5 R_2 g_m s^3 + C_2 C_5 C_L L_5 s^3 + 2C_2 C_5 C_L L_L R_2 g_m s^3 + 4C_2 C_5 C_L L_L s^3 + 2C_2 C_5 C_L R_2 R_L g_m s^2 + C_2 C_5 C_L R_2 s^2 + 4C_2 C_5 C_L R_L s^2 + 2C_2 C_5 R_2 g_m s + 4C_2 C_5 s + C_2 C_L\right.}$$

10.307 INVALID-ORDER-307 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_5 L_L R_2 R_L g_m s^5 + C_2 C_5 C_L L_5 L_L R_L s^5 + C_2 C_5 C_L L_L R_2 R_L s^4 + C_2 C_5 L_5 L_L R_2 g_m s^4 + C_2 C_5 L_5 L_L s^4 + C_2 C_5 L_5 R_2 R_L g_m s^3 + C_2 C_5 L_5 R_L s^3 + 2C_2 C_5 L_L R_2 R_L g_m s^3 +}$$

10.308 INVALID-ORDER-308 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{\left(C_L L_L R_L s^2 + L_L s + R_L\right)\left(C_2 C\right.}{C_2 C_5 C_L L_5 L_L R_2 g_m s^5 + C_2 C_5 C_L L_5 L_L s^5 + 2C_2 C_5 C_L L_L R_2 R_L g_m s^4 + C_2 C_5 C_L L_L R_2 s^4 + 4C_2 C_5 C_L L_L R_L s^4 + C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 + 2C_2 C_5 L_L R_2 g_m s^3 + 4C_2 C_5 L_L}$$

10.309 INVALID-ORDER-309 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{C_2C_5C_LL_5L_LR_2g_ms^5 + C_2C_5C_LL_5L_Ls^5 + C_2C_5C_LL_5R_2R_Lg_ms^4 + C_2C_5C_LL_5R_Ls^4 + 2C_2C_5C_LL_LR_2R_Lg_ms^4 + C_2C_5C_LL_LR_2s^4 + 4C_2C_5C_LL_LR_Ls^4 + C_2C_5C_LR_2R_Ls^3}{}$$

10.310 INVALID-ORDER-310 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_5R_2s^3 + C_2L_5R_2g_ms^2 + C_2L_5s^2 - C_2R_2s - C_5L_5s^2 + L_5g_ms - 1\right)}{2C_2C_5L_5R_2R_Lg_ms^3 + C_2C_5L_5R_2s^3 + 4C_2C_5L_5R_Ls^3 + C_2L_5R_2g_ms^2 + C_2L_5s^2 + 2C_2R_2R_Lg_ms + C_2R_2s + 4C_2R_Ls + 2C_5L_5R_Lg_ms^2 + C_5L_5s^2 + L_5g_ms + 2R_Lg_m + 1}$$

10.311 INVALID-ORDER-311 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2C_5L_5R_2s^3 + C_2L_5R_2g_ms^2 + C_2L_5s^2 - C_2R_2s - C_5L_5s^2 + L_5g_ms - 1}{C_2C_5C_LL_5R_2s^4 + 2C_2C_5L_5R_2g_ms^3 + 4C_2C_5L_5s^3 + C_2C_LL_5R_2g_ms^3 + C_2C_LL_5s^3 + C_2C_LR_2s^2 + 2C_2R_2g_ms + 4C_2s + C_5C_LL_5s^3 + 2C_5L_5g_ms^2 + C_LL_5g_ms^2 + C_Ls + 2g_}$$

10.312 INVALID-ORDER-312 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_5R_2s^3 + C_2L_5R_2g_ms^2 + C_2L_5s^2 - C_2R_2s - C_5L_5s^2 + \right.}{C_2C_5C_LL_5R_2R_Ls^4 + 2C_2C_5L_5R_2R_Lg_ms^3 + C_2C_5L_5R_2s^3 + 4C_2C_5L_5R_Ls^3 + C_2C_LL_5R_2R_Lg_ms^3 + C_2C_LL_5R_Ls^3 + C_2C_LR_2R_Ls^2 + C_2L_5R_2g_ms^2 + C_2L_5s^2 + 2C_2R_2R_Lg_}$$

10.313 INVALID-ORDER-313 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{(C_LR_Ls+1)\left(C_2C_5L_5R_2s^3 - C_2L_5R_2g_ms^2 - C_2L_5s^2 + C_2R_2s + C_5\right.}{2C_2C_5C_LL_5R_2R_Lg_ms^4 + C_2C_5C_LL_5R_2s^4 + 4C_2C_5C_LL_5R_Ls^4 + 2C_2C_5L_5R_2g_ms^3 + 4C_2C_5L_5s^3 + C_2C_LL_5R_2g_ms^3 + C_2C_LL_5s^3 + 2C_2C_LR_2R_Lg_ms^2 + C_2C_LR_2s^2 + 4C_2}$$

10.314 INVALID-ORDER-314 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 L_5 R_2 s^3 - C_2 L_5 R_2 g_m s^2 - C_2 L_5 s^2 + C_2 R_2 s + C_5\right.}{2C_2C_5C_LL_5L_LR_2g_ms^5 + 4C_2C_5C_LL_5L_Ls^5 + C_2C_5C_LL_5R_2s^4 + 2C_2C_5L_5R_2g_ms^3 + 4C_2C_5L_5s^3 + C_2C_LL_5R_2g_ms^3 + C_2C_LL_5s^3 + 2C_2C_LL_LR_2g_ms^3 + 4C_2C_LL_Ls^3 + C_2}$$

10.315 INVALID-ORDER-315 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(-C_2 C_5 L_5 R_2 s^3 + C_2 L_5 R_2 g_m s^2 + C_2 L_5 s^2 - C_2 R_2 s - C_5 L_5 s^2\right.}{C_2C_5C_LL_5L_LR_2s^5 + 2C_2C_5L_5L_LR_2g_ms^4 + 4C_2C_5L_5L_Ls^4 + C_2C_5L_5R_2s^3 + C_2C_LL_5L_LR_2g_ms^4 + C_2C_LL_5L_Ls^4 + C_2C_LL_LR_2s^3 + C_2L_5R_2g_ms^2 + C_2L_5s^2 + 2C_2L_LR_2g_m}$$

10.316 INVALID-ORDER-316 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{\left(C_L L_L s^2 + C_L\right.}{2C_2C_5C_LL_5L_LR_2g_ms^5 + 4C_2C_5C_LL_5L_Ls^5 + 2C_2C_5C_LL_5R_2R_Lg_ms^4 + C_2C_5C_LL_5R_2s^4 + 4C_2C_5C_LL_5R_Ls^4 + 2C_2C_5L_5R_2g_ms^3 + 4C_2C_5L_5s^3 + C_2C_LL_5R_2g_ms^3 + C_2C_L}$$

10.317 INVALID-ORDER-317 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_5L_LR_2R_Ls^5 + 2C_2C_5L_5L_LR_2R_Lg_ms^4 + C_2C_5L_5L_LR_2s^4 + 4C_2C_5L_5L_LR_Ls^4 + C_2C_5L_5R_2R_Ls^3 + C_2C_LL_5L_LR_2R_Lg_ms^4 + C_2C_LL_5L_LR_Ls^4 + C_2C_LL_LR_2R_Ls^3}$$

10.318 INVALID-ORDER-318 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_5L_LR_2R_Lg_ms^5 + C_2C_5C_LL_5L_LR_2s^5 + 4C_2C_5C_LL_5L_LR_Ls^5 + 2C_2C_5L_5L_LR_2g_ms^4 + 4C_2C_5L_5L_Ls^4 + 2C_2C_5L_5R_2R_Lg_ms^3 + C_2C_5L_5R_2s^3 + 4C_2C_5L_5R_Ls^3 +}$$

10.319 INVALID-ORDER-319 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_5L_LR_2R_Lg_ms^5 + C_2C_5C_LL_5L_LR_2s^5 + 4C_2C_5C_LL_5L_LR_Ls^5 + C_2C_5C_LL_5R_2R_Ls^4 + 2C_2C_5L_5R_2R_Lg_ms^3 + C_2C_5L_5R_2s^3 + 4C_2C_5L_5R_Ls^3 + C_2C_LL_5L_LR_2g_m}$$

10.320 INVALID-ORDER-320 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 + C_2C_5R_2R_5g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_5s^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 + C_2C_5R_2R_5g_ms^2 + 2C_2C_5R_2R_Lg_ms^2 + C_2C_5R_2s^2 + C_2C_5R_5s^2 + 4C_2C_5R_Ls^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^2 + C_5R_5g_ms + 2C_5R_Lg_ms + C}$$

10.321 INVALID-ORDER-321 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 + C_2C_5R_2R_5g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_5s^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m}{s\left(C_2C_5C_LL_5R_2g_ms^3 + C_2C_5C_LL_5s^3 + C_2C_5C_LR_2R_5g_ms^2 + C_2C_5C_LR_2s^2 + C_2C_5C_LR_5s^2 + 2C_2C_5R_2g_ms + 4C_2C_5s + C_2C_LR_2g_ms + C_2C_Ls + C_5C_LL_5g_ms^2 + C_5C_LR_5}$$

10.322 INVALID-ORDER-322 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 + C_2C_5R_2R\right.}{C_2C_5C_LL_5R_2R_Lg_ms^4 + C_2C_5C_LL_5R_Ls^4 + C_2C_5C_LR_2R_5R_Lg_ms^3 + C_2C_5C_LR_2R_Ls^3 + C_2C_5C_LR_5R_Ls^3 + C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 + C_2C_5R_2R_5g_ms^2 + 2C_2C_5R_2R_L}$$

10.323 INVALID-ORDER-323 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 + C_2C_5R_2R_5g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_5s^2 + C_2R_2g_ms + C_2s + C_5\right.}{s\left(C_2C_5C_LL_5R_2g_ms^3 + C_2C_5C_LL_5s^3 + C_2C_5C_LR_2R_5g_ms^2 + 2C_2C_5C_LR_2R_Lg_ms^2 + C_2C_5C_LR_2s^2 + C_2C_5C_LR_5s^2 + 4C_2C_5C_LR_Ls^2 + 2C_2C_5R_2g_ms + 4C_2C_5s + C_2C_LR_2}$$

10.324 INVALID-ORDER-324 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 + C_2 C_5 R_2 R_5 g_m s^2 - C_2 C_5 R_2 s^2 + C_2 C_5 R_5 s^2 + C_2 R_2 g_m s + C_2 s + C_5\right.}{s\left(C_2 C_5 C_L L_5 R_2 g_m s^3 + C_2 C_5 C_L L_5 s^3 + 2C_2 C_5 C_L L_L R_2 g_m s^3 + 4C_2 C_5 C_L L_L s^3 + C_2 C_5 C_L R_2 R_5 g_m s^2 + C_2 C_5 C_L R_2 s^2 + C_2 C_5 C_L R_5 s^2 + 2C_2 C_5 R_2 g_m s + 4C_2 C_5 s + C_2 C_L R_2 g\right.}$$

10.325 INVALID-ORDER-325 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L s\left(C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 + C_2 C_5 R_2 R\right.}{C_2 C_5 C_L L_5 L_L R_2 g_m s^5 + C_2 C_5 C_L L_5 L_L s^5 + C_2 C_5 C_L L_L R_2 R_5 g_m s^4 + C_2 C_5 C_L L_L R_2 s^4 + C_2 C_5 C_L L_L R_5 s^4 + C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 + 2C_2 C_5 L_L R_2 g_m s^3 + 4C_2 C_5 L_L s^3}$$

10.326 INVALID-ORDER-326 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 + C_2 C_5 R_2 R_5 g_m s^2 - C_2 C_5 R_2 s^2 +\right.}{s\left(C_2 C_5 C_L L_5 R_2 g_m s^3 + C_2 C_5 C_L L_5 s^3 + 2C_2 C_5 C_L L_L R_2 g_m s^3 + 4C_2 C_5 C_L L_L s^3 + C_2 C_5 C_L R_2 R_5 g_m s^2 + 2C_2 C_5 C_L R_2 R_L g_m s^2 + C_2 C_5 C_L R_2 s^2 + C_2 C_5 C_L R_5 s^2 + 4C_2 C_5 C_L R_L\right.}$$

10.327 INVALID-ORDER-327 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_5 L_L R_2 R_L g_m s^5 + C_2 C_5 C_L L_5 L_L R_L s^5 + C_2 C_5 C_L L_L R_2 R_5 R_L g_m s^4 + C_2 C_5 C_L L_L R_2 R_L s^4 + C_2 C_5 C_L L_L R_5 R_L s^4 + C_2 C_5 L_5 L_L R_2 g_m s^4 + C_2 C_5 L_5 L_L s^4 + C_2 C_5 L_5 R_2}$$

10.328 INVALID-ORDER-328 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_5 L_L R_2 g_m s^5 + C_2 C_5 C_L L_5 L_L s^5 + C_2 C_5 C_L L_L R_2 R_5 g_m s^4 + 2C_2 C_5 C_L L_L R_2 R_L g_m s^4 + C_2 C_5 C_L L_L R_2 s^4 + C_2 C_5 C_L L_L R_5 s^4 + 4C_2 C_5 C_L L_L R_L s^4 + C_2 C_5 L_5 R_2 g_m s^3 +}$$

10.329 INVALID-ORDER-329 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_5L_LR_2g_ms^5 + C_2C_5C_LL_5L_Ls^5 + C_2C_5C_LL_5R_2R_Lg_ms^4 + C_2C_5C_LL_5R_Ls^4 + C_2C_5C_LL_LR_2R_5g_ms^4 + 2C_2C_5C_LL_LR_2R_Lg_ms^4 + C_2C_5C_LL_LR_2s^4 + C_2C_5C_LL_LR$$

10.330 INVALID-ORDER-330 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_5R_2R_5s^3 + C_2L_5R_2R_5g_ms^2 - C_2L_5R_2s^2 + C_2L_5R_5s^2 - C_2R_2R_5s - C_5L_5R_5s^2 +\right.}{2C_2C_5L_5R_2R_5R_Lg_ms^3 + C_2C_5L_5R_2R_5s^3 + 4C_2C_5L_5R_5R_Ls^3 + C_2L_5R_2R_5g_ms^2 + 2C_2L_5R_2R_Lg_ms^2 + C_2L_5R_2s^2 + C_2L_5R_5s^2 + 4C_2L_5R_Ls^2 + 2C_2R_2R_5R_Lg_ms + C_2R_2R$$

10.331 INVALID-ORDER-331 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2C_5L_5R_2R_5s^3 + C_2L_5R_2R_5g_ms^2 - C_2L_5R_2s^2 + C_2L_5R_5s^2 - C_2R_2R_5s - C_5L_5R_5s^2 +}{C_2C_5C_LL_5R_2R_5s^4 + 2C_2C_5L_5R_2R_5g_ms^3 + 4C_2C_5L_5R_5s^3 + C_2C_LL_5R_2R_5g_ms^3 + C_2C_LL_5R_2s^3 + C_2C_LL_5R_5s^3 + C_2C_LR_2R_5s^2 + 2C_2L_5R_2g_ms^2 + 4C_2L_5s^2 + 2C_2R_2R_5g$$

10.332 INVALID-ORDER-332 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{R_L\left(-C\right.}{C_2C_5C_LL_5R_2R_5R_Ls^4 + 2C_2C_5L_5R_2R_5R_Lg_ms^3 + C_2C_5L_5R_2R_5s^3 + 4C_2C_5L_5R_5R_Ls^3 + C_2C_LL_5R_2R_5R_Lg_ms^3 + C_2C_LL_5R_2R_Ls^3 + C_2C_LL_5R_5R_Ls^3 + C_2C_LR_2R_5R_Ls^2 +$$

10.333 INVALID-ORDER-333 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_5R_2R_5R_Lg_ms^4 + C_2C_5C_LL_5R_2R_5s^4 + 4C_2C_5C_LL_5R_5R_Ls^4 + 2C_2C_5L_5R_2R_5g_ms^3 + 4C_2C_5L_5R_5s^3 + C_2C_LL_5R_2R_5g_ms^3 + 2C_2C_LL_5R_2R_Lg_ms^3 + C_2C_LL_5R_2$$

10.334 INVALID-ORDER-334 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{2C_2C_5C_LL_5L_LR_2R_5g_ms^5 + 4C_2C_5C_LL_5L_LR_5s^5 + C_2C_5C_LL_5R_2R_5s^4 + 2C_2C_5L_5R_2R_5g_ms^3 + 4C_2C_5L_5R_5s^3 + 2C_2C_LL_5L_LR_2g_ms^4 + 4C_2C_LL_5L_Ls^4 + C_2C_LL_5R_2R_5g_m}{}$$

10.335 INVALID-ORDER-335 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L s\,(-}{C_2C_5C_LL_5L_LR_2R_5s^5 + 2C_2C_5L_5L_LR_2R_5g_ms^4 + 4C_2C_5L_5L_LR_5s^4 + C_2C_5L_5R_2R_5s^3 + C_2C_LL_5L_LR_2R_5g_ms^4 + C_2C_LL_5L_LR_2s^4 + C_2C_LL_5L_LR_5s^4 + C_2C_LL_LR_2R_5s^3 +}$$

10.336 INVALID-ORDER-336 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{2C_2C_5C_LL_5L_LR_2R_5g_ms^5 + 4C_2C_5C_LL_5L_LR_5s^5 + 2C_2C_5C_LL_5R_2R_5R_Lg_ms^4 + C_2C_5C_LL_5R_2R_5s^4 + 4C_2C_5C_LL_5R_5R_Ls^4 + 2C_2C_5L_5R_2R_5g_ms^3 + 4C_2C_5L_5R_5s^3 + 2C_2C}{}$$

10.337 INVALID-ORDER-337 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{C_2C_5C_LL_5L_LR_2R_5R_Ls^5 + 2C_2C_5L_5L_LR_2R_5R_Lg_ms^4 + C_2C_5L_5L_LR_2R_5s^4 + 4C_2C_5L_5L_LR_5R_Ls^4 + C_2C_5L_5R_2R_5R_Ls^3 + C_2C_LL_5L_LR_2R_5R_Lg_ms^4 + C_2C_LL_5L_LR_2R_Ls^4}{}$$

10.338 INVALID-ORDER-338 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = -\frac{2C_2C_5C_LL_5L_LR_2R_5R_Lg_ms^5 + C_2C_5C_LL_5L_LR_2R_5s^5 + 4C_2C_5C_LL_5L_LR_5R_Ls^5 + 2C_2C_5L_5L_LR_2R_5g_ms^4 + 4C_2C_5L_5L_LR_5s^4 + 2C_2C_5L_5R_2R_5R_Lg_ms^3 + C_2C_5L_5R_2R_5s^3}{}$$

10.339 INVALID-ORDER-339 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_5L_LR_2R_5R_Lg_ms^5 + C_2C_5C_LL_5L_LR_2R_5s^5 + 4C_2C_5C_LL_5L_LR_5R_Ls^5 + C_2C_5C_LL_5R_2R_5R_Ls^4 + 2C_2C_5L_5R_2R_5R_Lg_ms^3 + C_2C_5L_5R_2R_5s^3 + 4C_2C_5L_5R_5R_Ls^3}$$

10.340 INVALID-ORDER-340 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5,\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_5R_2R_5g_ms^3 - C_2C_5L_5R_2s^3 + C_2C_5L_5R_5s^3 + C_2L_5R_2g_ms^2 + C_2L_5s^2 + C_2R_2R_5g_ms - C_2R_2s + C_2R_5s + C_5L_5R_5\right.}{C_2C_5L_5R_2R_5g_ms^3 + 2C_2C_5L_5R_2R_Lg_ms^3 + C_2C_5L_5R_2s^3 + C_2C_5L_5R_5s^3 + 4C_2C_5L_5R_Ls^3 + C_2L_5R_2g_ms^2 + C_2L_5s^2 + C_2R_2R_5g_ms + 2C_2R_2R_Lg_ms + C_2R_2s + C_2R_5s + 4}$$

10.341 INVALID-ORDER-341 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5,\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_5R_2R_5g_ms^3 - C_2C_5L_5R_2s^3 + C_2C_5L_5R_5s^3 + C_2L_5R_2g_ms^2 + C_2L_5s^2 + C_2R_2R_5g_ms - C_2R_2s + C_2R_5s}{C_2C_5C_LL_5R_2R_5g_ms^4 + C_2C_5C_LL_5R_2s^4 + C_2C_5C_LL_5R_5s^4 + 2C_2C_5L_5R_2g_ms^3 + 4C_2C_5L_5s^3 + C_2C_LL_5R_2g_ms^3 + C_2C_LL_5s^3 + C_2C_LR_2R_5g_ms^2 + C_2C_LR_2s^2 + C_2C_LR_5s}$$

10.342 INVALID-ORDER-342 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5,\ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{R_L}{C_2C_5C_LL_5R_2R_5R_Lg_ms^4 + C_2C_5C_LL_5R_2R_Ls^4 + C_2C_5C_LL_5R_5R_Ls^4 + C_2C_5L_5R_2R_5g_ms^3 + 2C_2C_5L_5R_2R_Lg_ms^3 + C_2C_5L_5R_2s^3 + C_2C_5L_5R_5s^3 + 4C_2C_5L_5R_Ls^3 + C_2C_L}$$

10.343 INVALID-ORDER-343 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5,\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_LR_Ls + 1)\left(C_2C_5L_5R_2R_5g_ms^3 - C_2C_5L_5R_2s^3 + C_2C_5L_5\right.}{C_2C_5C_LL_5R_2R_5g_ms^4 + 2C_2C_5C_LL_5R_2R_Lg_ms^4 + C_2C_5C_LL_5R_2s^4 + C_2C_5C_LL_5R_5s^4 + 4C_2C_5C_LL_5R_Ls^4 + 2C_2C_5L_5R_2g_ms^3 + 4C_2C_5L_5s^3 + C_2C_LL_5R_2g_ms^3 + C_2C_LL_5s}$$

10.344 INVALID-ORDER-344 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 L_5 R_2 R_5 g_m s^3 - C_2 C_5 L_5 R_2 s^3 + C_2 C_5 L_5\right.}{2C_2 C_5 C_L L_5 L_L R_2 g_m s^5 + 4C_2 C_5 C_L L_5 L_L s^5 + C_2 C_5 C_L L_5 R_2 R_5 g_m s^4 + C_2 C_5 C_L L_5 R_2 s^4 + C_2 C_5 C_L L_5 R_5 s^4 + 2C_2 C_5 L_5 R_2 g_m s^3 + 4C_2 C_5 L_5 s^3 + C_2 C_L L_5 R_2 g_m s^3 + C_2 C_L L_5 s^3}$$

10.345 INVALID-ORDER-345 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L}{C_2 C_5 C_L L_5 L_L R_2 R_5 g_m s^5 + C_2 C_5 C_L L_5 L_L R_2 s^5 + C_2 C_5 C_L L_5 L_L R_5 s^5 + 2C_2 C_5 L_5 L_L R_2 g_m s^4 + 4C_2 C_5 L_5 L_L s^4 + C_2 C_5 L_5 R_2 R_5 g_m s^3 + C_2 C_5 L_5 R_2 s^3 + C_2 C_5 L_5 R_5 s^3 + C_2 C_L L}$$

10.346 INVALID-ORDER-346 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L\right.}{2C_2 C_5 C_L L_5 L_L R_2 g_m s^5 + 4C_2 C_5 C_L L_5 L_L s^5 + C_2 C_5 C_L L_5 R_2 R_5 g_m s^4 + 2C_2 C_5 C_L L_5 R_2 R_L g_m s^4 + C_2 C_5 C_L L_5 R_2 s^4 + C_2 C_5 C_L L_5 R_5 s^4 + 4C_2 C_5 C_L L_5 R_L s^4 + 2C_2 C_5 L_5 R_2 g_m s^3}$$

10.347 INVALID-ORDER-347 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_5 L_L R_2 R_5 R_L g_m s^5 + C_2 C_5 C_L L_5 L_L R_2 R_L s^5 + C_2 C_5 C_L L_5 L_L R_5 R_L s^5 + C_2 C_5 L_5 L_L R_2 R_5 g_m s^4 + 2C_2 C_5 L_5 L_L R_2 R_L g_m s^4 + C_2 C_5 L_5 L_L R_2 s^4 + C_2 C_5 L_5 L_L R_5 s^4 + 4C$$

10.348 INVALID-ORDER-348 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_5 L_L R_2 R_5 g_m s^5 + 2C_2 C_5 C_L L_5 L_L R_2 R_L g_m s^5 + C_2 C_5 C_L L_5 L_L R_2 s^5 + C_2 C_5 C_L L_5 L_L R_5 s^5 + 4C_2 C_5 C_L L_5 L_L R_L s^5 + 2C_2 C_5 L_5 L_L R_2 g_m s^4 + 4C_2 C_5 L_5 L_L s^4 + C_2 C_5 L_5$$

10.349 INVALID-ORDER-349 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_5L_LR_2R_5g_ms^5 + 2C_2C_5C_LL_5L_LR_2R_Lg_ms^5 + C_2C_5C_LL_5L_LR_2s^5 + C_2C_5C_LL_5L_LR_5s^5 + 4C_2C_5C_LL_5L_LR_Ls^5 + C_2C_5C_LL_5R_2R_5R_Lg_ms^4 + C_2C_5C_LL_5R_2R_Ls^4 +}$$

10.350 INVALID-ORDER-350 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_5R_2R_5g_ms^3 - C_2C_5L_5R_2s^3 + C_2C_5L_5R_5s^3 - C_2C_5R_2R_5s^2 + C_2R_2R_5g_ms - C_2R_2s +\right.}{C_2C_5L_5R_2R_5g_ms^3 + 2C_2C_5L_5R_2R_Lg_ms^3 + C_2C_5L_5R_2s^3 + C_2C_5L_5R_5s^3 + 4C_2C_5L_5R_Ls^3 + 2C_2C_5R_2R_5R_Lg_ms^2 + C_2C_5R_2R_5s^2 + 4C_2C_5R_5R_Ls^2 + C_2R_2R_5g_ms + 2C_2R_}$$

10.351 INVALID-ORDER-351 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_5R_2R_5g_ms^3 - C_2C_5L_5R_2s^3 + C_2C_5L_5R_5s^3 - C_2C_5R_2R_5s^2 + C_2R_2R_5g_ms - C_2R}{C_2C_5C_LL_5R_2R_5g_ms^4 + C_2C_5C_LL_5R_2s^4 + C_2C_5C_LL_5R_5s^4 + C_2C_5C_LR_2R_5s^3 + 2C_2C_5L_5R_2g_ms^3 + 4C_2C_5L_5s^3 + 2C_2C_5R_2R_5g_ms^2 + 4C_2C_5R_5s^2 + C_2C_LR_2R_5g_ms^2 + C_2}$$

10.352 INVALID-ORDER-352 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_5R_2R_5R_Lg_ms^4 + C_2C_5C_LL_5R_2R_Ls^4 + C_2C_5C_LL_5R_5R_Ls^4 + C_2C_5C_LR_2R_5R_Ls^3 + C_2C_5L_5R_2R_5g_ms^3 + 2C_2C_5L_5R_2R_Lg_ms^3 + C_2C_5L_5R_2s^3 + C_2C_5L_5R_5s^3 + 4}$$

10.353 INVALID-ORDER-353 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L}{C_2C_5C_LL_5R_2R_5g_ms^4 + 2C_2C_5C_LL_5R_2R_Lg_ms^4 + C_2C_5C_LL_5R_2s^4 + C_2C_5C_LL_5R_5s^4 + 4C_2C_5C_LL_5R_Ls^4 + 2C_2C_5C_LR_2R_5R_Lg_ms^3 + C_2C_5C_LR_2R_5s^3 + 4C_2C_5C_LR_5R_Ls^3}$$

10.354 INVALID-ORDER-354 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L$$
$$2C_2C_5C_LL_5L_LR_2g_ms^5 + 4C_2C_5C_LL_5L_Ls^5 + C_2C_5C_LL_5R_2R_5g_ms^4 + C_2C_5C_LL_5R_2s^4 + C_2C_5C_LL_5R_5s^4 + 2C_2C_5C_LL_LR_2R_5g_ms^4 + 4C_2C_5C_LL_LR_5s^4 + C_2C_5C_LR_2R_5s^3$$

10.355 INVALID-ORDER-355 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_5L_LR_2R_5g_ms^5 + C_2C_5C_LL_5L_LR_2s^5 + C_2C_5C_LL_5L_LR_5s^5 + C_2C_5C_LL_LR_2R_5s^4 + 2C_2C_5L_5L_LR_2g_ms^4 + 4C_2C_5L_5L_Ls^4 + C_2C_5L_5R_2R_5g_ms^3 + C_2C_5L_5R_2s^3 + C$$

10.356 INVALID-ORDER-356 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_5L_LR_2g_ms^5 + 4C_2C_5C_LL_5L_Ls^5 + C_2C_5C_LL_5R_2R_5g_ms^4 + 2C_2C_5C_LL_5R_2R_Lg_ms^4 + C_2C_5C_LL_5R_2s^4 + C_2C_5C_LL_5R_5s^4 + 4C_2C_5C_LL_5R_Ls^4 + 2C_2C_5C_LL_LR_2R$$

10.357 INVALID-ORDER-357 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_5L_LR_2R_5R_Lg_ms^5 + C_2C_5C_LL_5L_LR_2R_Ls^5 + C_2C_5C_LL_5L_LR_5R_Ls^5 + C_2C_5C_LL_LR_2R_5R_Ls^4 + C_2C_5L_5L_LR_2R_5g_ms^4 + 2C_2C_5L_5L_LR_2R_Lg_ms^4 + C_2C_5L_5L_LR_2s$$

10.358 INVALID-ORDER-358 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{}{C_2C_5C_LL_5L_LR_2R_5g_ms^5 + 2C_2C_5C_LL_5L_LR_2R_Lg_ms^5 + C_2C_5C_LL_5L_LR_2s^5 + C_2C_5C_LL_5L_LR_5s^5 + 4C_2C_5C_LL_5L_LR_Ls^5 + 2C_2C_5C_LL_LR_2R_5R_Lg_ms^4 + C_2C_5C_LL_LR_2R_5s$$

10.359 INVALID-ORDER-359 $Z(s) = \left(\infty,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{C_2 C_5 C_L L_5 L_L R_2 R_5 g_m s^5 + 2C_2 C_5 C_L L_5 L_L R_2 R_L g_m s^5 + C_2 C_5 C_L L_5 L_L R_2 s^5 + C_2 C_5 C_L L_5 L_L R_5 s^5 + 4C_2 C_5 C_L L_5 L_L R_L s^5 + C_2 C_5 C_L L_5 R_2 R_5 R_L g_m s^4 + C_2 C_5 C_L L_5 R_2 R_L s^4 +$$

10.360 INVALID-ORDER-360 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s + R_5 g_m - 1}{C_2 C_L L_2 R_5 g_m s^3 + C_2 C_L L_2 s^3 + C_2 C_L R_5 s^2 + 2C_2 L_2 g_m s^2 + 4C_2 s + C_L R_5 g_m s + C_L s + 2g_m}$$

10.361 INVALID-ORDER-361 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{R_L\left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s + R_5 g_m - 1\right)}{C_2 C_L L_2 R_5 R_L g_m s^3 + C_2 C_L L_2 R_L s^3 + C_2 C_L R_5 R_L s^2 + C_2 L_2 R_5 g_m s^2 + 2C_2 L_2 R_L g_m s^2 + C_2 L_2 s^2 + C_2 R_5 s + 4C_2 R_L s + C_L R_5 R_L g_m s + C_L R_L s + R_5 g_m + 2R_L g_m + 1}$$

10.362 INVALID-ORDER-362 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1)\left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s + R_5 g_m - 1\right)}{C_2 C_L L_2 R_5 g_m s^3 + 2C_2 C_L L_2 R_L g_m s^3 + C_2 C_L L_2 s^3 + C_2 C_L R_5 s^2 + 4C_2 C_L R_L s^2 + 2C_2 L_2 g_m s^2 + 4C_2 s + C_L R_5 g_m s + 2C_L R_L g_m s + C_L s + 2g_m}$$

10.363 INVALID-ORDER-363 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s + R_5 g_m - 1\right)}{2C_2 C_L L_2 L_L g_m s^4 + C_2 C_L L_2 R_5 g_m s^3 + C_2 C_L L_2 s^3 + 4C_2 C_L L_L s^3 + C_2 C_L R_5 s^2 + 2C_2 L_2 g_m s^2 + 4C_2 s + 2C_L L_L g_m s^2 + C_L R_5 g_m s + C_L s + 2g_m}$$

10.364 INVALID-ORDER-364 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s \left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s + R_5 g_m - 1\right)}{C_2 C_L L_2 L_L R_5 g_m s^4 + C_2 C_L L_2 L_L s^4 + C_2 C_L L_L R_5 s^3 + 2 C_2 L_2 L_L g_m s^3 + C_2 L_2 R_5 g_m s^2 + C_2 L_2 s^2 + 4 C_2 L_L s^2 + C_2 R_5 s + C_L L_L R_5 g_m s^2 + C_L L_L s^2 + 2 L_L g_m s + R_5 g_m + 1}$$

10.365 INVALID-ORDER-365 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s + R_5 g_m - 1\right)}{2 C_2 C_L L_2 L_L g_m s^4 + C_2 C_L L_2 R_5 g_m s^3 + 2 C_2 C_L L_2 R_L g_m s^3 + C_2 C_L L_2 s^3 + 4 C_2 C_L L_L s^3 + C_2 C_L R_5 s^2 + 4 C_2 C_L R_L s^2 + 2 C_2 L_2 g_m s^2 + 4 C_2 s + 2 C_L L_L g_m s^2 + C_L R_5 g_m s + 2 C_L}$$

10.366 INVALID-ORDER-366 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s \left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s + R_5 g_m - 1\right)}{C_2 C_L L_2 L_L R_5 R_L g_m s^4 + C_2 C_L L_2 L_L R_L s^4 + C_2 C_L L_L R_5 R_L s^3 + C_2 L_2 L_L R_5 g_m s^3 + 2 C_2 L_2 L_L R_L g_m s^3 + C_2 L_2 L_L s^3 + C_2 L_2 R_5 R_L g_m s^2 + C_2 L_2 R_L s^2 + C_2 L_L R_5 s^2 + 4 C_2 L_L R}$$

10.367 INVALID-ORDER-367 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{\left(C_L L_L R_L s^2 + L_L s + R_L\right)\left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s + R_5 g_m - 1\right)}{C_2 C_L L_2 L_L R_5 g_m s^4 + 2 C_2 C_L L_2 L_L R_L g_m s^4 + C_2 C_L L_2 L_L s^4 + C_2 C_L L_L R_5 s^3 + 4 C_2 C_L L_L R_L s^3 + 2 C_2 L_2 L_L g_m s^3 + C_2 L_2 R_5 g_m s^2 + 2 C_2 L_2 R_L g_m s^2 + C_2 L_2 s^2 + 4 C_2 L_L s^2 + C}$$

10.368 INVALID-ORDER-368 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{R_L \left(C_L L_L s^2 + 1\right)\left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5\right.}{C_2 C_L L_2 L_L R_5 g_m s^4 + 2 C_2 C_L L_2 L_L R_L g_m s^4 + C_2 C_L L_2 L_L s^4 + C_2 C_L L_2 R_5 R_L g_m s^3 + C_2 C_L L_2 R_L s^3 + C_2 C_L L_L R_5 s^3 + 4 C_2 C_L L_L R_L s^3 + C_2 C_L R_5 R_L s^2 + C_2 L_2 R_5 g_m s^2 + 2 C_2}$$

10.369 INVALID-ORDER-369 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2s^3 + C_2L_2g_ms^2 + C_2s - C_5s + g_m\right)}{2C_2C_5L_2R_Lg_ms^3 + C_2C_5L_2s^3 + 4C_2C_5R_Ls^2 + C_2L_2g_ms^2 + C_2s + 2C_5R_Lg_ms + C_5s + g_m}$$

10.370 INVALID-ORDER-370 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2C_5L_2s^3 + C_2L_2g_ms^2 + C_2s - C_5s + g_m}{s\left(C_2C_5C_LL_2s^3 + 2C_2C_5L_2g_ms^2 + 4C_2C_5s + C_2C_LL_2g_ms^2 + C_2C_Ls + C_5C_Ls + 2C_5g_m + C_Lg_m\right)}$$

10.371 INVALID-ORDER-371 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{R_L}{C_LR_Ls+1}\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2s^3 + C_2L_2g_ms^2 + C_2s - C_5s + g_m\right)}{C_2C_5C_LL_2R_Ls^4 + 2C_2C_5L_2R_Lg_ms^3 + C_2C_5L_2s^3 + 4C_2C_5R_Ls^2 + C_2C_LL_2R_Lg_ms^3 + C_2C_LR_Ls^2 + C_2L_2g_ms^2 + C_2s + C_5C_LR_Ls^2 + 2C_5R_Lg_ms + C_5s + C_LR_Lg_ms + g_m}$$

10.372 INVALID-ORDER-372 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(-C_2C_5L_2s^3 + C_2L_2g_ms^2 + C_2s - C_5s + g_m\right)}{s\left(2C_2C_5C_LL_2R_Lg_ms^3 + C_2C_5C_LL_2s^3 + 4C_2C_5C_LR_Ls^2 + 2C_2C_5L_2g_ms^2 + 4C_2C_5s + C_2C_LL_2g_ms^2 + C_2C_Ls + 2C_5C_LR_Lg_ms + C_5C_Ls + 2C_5g_m + C_Lg_m\right)}$$

10.373 INVALID-ORDER-373 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2+1\right)\left(-C_2C_5L_2s^3 + C_2L_2g_ms^2 + C_2s - C_5s + g_m\right)}{s\left(2C_2C_5C_LL_2L_Lg_ms^4 + C_2C_5C_LL_2s^3 + 4C_2C_5C_LL_Ls^3 + 2C_2C_5L_2g_ms^2 + 4C_2C_5s + C_2C_LL_2g_ms^2 + C_2C_Ls + 2C_5C_LL_Lg_ms^2 + C_5C_Ls + 2C_5g_m + C_Lg_m\right)}$$

10.374 INVALID-ORDER-374 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{L_Ls}{C_LL_Ls^2+1}\right)$

$$H(s) = \frac{L_Ls\left(-C_2C_5L_2s^3 + C_2L_2g_ms^2 + C_2s - C_5s + g_m\right)}{C_2C_5C_LL_2L_Ls^5 + 2C_2C_5L_2L_Lg_ms^4 + C_2C_5L_2s^3 + 4C_2C_5L_Ls^3 + C_2C_LL_2L_Lg_ms^4 + C_2C_LL_Ls^3 + C_2L_2g_ms^2 + C_2s + C_5C_LL_Ls^3 + 2C_5L_Lg_ms^2 + C_5s + C_LL_Lg_ms^2 + g_m}$$

10.375 INVALID-ORDER-375 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(-C_2 C_5 L_2 s^3 + C_2 L_2 g_m s^2 + C_2 s - C_5 s + g_m\right)}{s\left(2C_2C_5C_L L_2 L_L g_m s^4 + 2C_2C_5C_L L_2 R_L g_m s^3 + C_2C_5C_L L_2 s^3 + 4C_2C_5C_L L_L s^3 + 4C_2C_5C_L R_L s^2 + 2C_2C_5 L_2 g_m s^2 + 4C_2C_5 s + C_2C_L L_2 g_m s^2 + C_2C_L s + 2C_5C_L L_L g_m s^2 +\right.}$$

10.376 INVALID-ORDER-376 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s\left(-C_2 C_5 L_2 s^3 + C_2 L_2 g_m s^2 + C_2 s - C_5 s + g_m\right)}{C_2C_5C_L L_2 L_L R_L s^5 + 2C_2C_5 L_2 L_L R_L g_m s^4 + C_2C_5 L_2 L_L s^4 + C_2C_5 L_2 R_L s^3 + 4C_2C_5 L_L R_L s^3 + C_2C_L L_2 L_L R_L g_m s^4 + C_2C_L L_L R_L s^3 + C_2 L_2 L_L g_m s^3 + C_2 L_2 R_L g_m s^2 + C_2 L}$$

10.377 INVALID-ORDER-377 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{\left(C_L L_L R_L s^2 + L_L s + R_L\right)\left(-C_2 C_5 L_2 s^3 + C_2 L_2 g_m s^2 + C_2 s - C\right.}{2C_2C_5C_L L_2 L_L R_L g_m s^5 + C_2C_5C_L L_2 L_L s^5 + 4C_2C_5C_L L_L R_L s^4 + 2C_2C_5 L_2 L_L g_m s^4 + 2C_2C_5 L_2 R_L g_m s^3 + C_2C_5 L_2 s^3 + 4C_2C_5 L_L s^3 + 4C_2C_5 R_L s^2 + C_2C_L L_2 L_L g_m s^4 + C_2C}$$

10.378 INVALID-ORDER-378 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{R_L\left(C_L L_L s^2 + 1\right)\left(-C_2 C_5 L_2 s^3 + C_2 L_2 g_m s^2\right.}{2C_2C_5C_L L_2 L_L R_L g_m s^5 + C_2C_5C_L L_2 L_L s^5 + C_2C_5C_L L_2 R_L s^4 + 4C_2C_5C_L L_L R_L s^4 + 2C_2C_5 L_2 R_L g_m s^3 + C_2C_5 L_2 s^3 + 4C_2C_5 R_L s^2 + C_2C_L L_2 L_L g_m s^4 + C_2C_L L_2 R_L g_m s^3 +}$$

10.379 INVALID-ORDER-379 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2R_5s^3 + C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2R_5s - C_5R_5s + R_5g_m - 1\right)}{2C_2C_5L_2R_5R_Lg_ms^3 + C_2C_5L_2R_5s^3 + 4C_2C_5R_5R_Ls^2 + C_2L_2R_5g_ms^2 + 2C_2L_2R_Lg_ms^2 + C_2L_2s^2 + C_2R_5s + 4C_2R_Ls + 2C_5R_5R_Lg_ms + C_5R_5s + R_5g_m + 2R_Lg_m + 1}$$

10.380 INVALID-ORDER-380 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2 C_5 L_2 R_5 s^3 + C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1}{C_2 C_5 C_L L_2 R_5 s^4 + 2C_2 C_5 L_2 R_5 g_m s^3 + 4C_2 C_5 R_5 s^2 + C_2 C_L L_2 R_5 g_m s^3 + C_2 C_L L_2 s^3 + C_2 C_L R_5 s^2 + 2C_2 L_2 g_m s^2 + 4C_2 s + C_5 C_L R_5 s^2 + 2C_5 R_5 g_m s + C_L R_5 g_m s + C_L s + 2g_m}$$

10.381 INVALID-ORDER-381 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L \left(-C_2 C_5 L_2 R_5 s^3 + C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s - C_5 R_5 s +\right.}{C_2 C_5 C_L L_2 R_5 R_L s^4 + 2C_2 C_5 L_2 R_5 R_L g_m s^3 + C_2 C_5 L_2 R_5 s^3 + 4C_2 C_5 R_5 R_L s^2 + C_2 C_L L_2 R_5 R_L g_m s^3 + C_2 C_L L_2 R_L s^3 + C_2 C_L R_5 R_L s^2 + C_2 L_2 R_5 g_m s^2 + 2C_2 L_2 R_L g_m s^2 + C_2 L$$

10.382 INVALID-ORDER-382 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{(C_L R_L s + 1)\left(C_2 C_5 L_2 R_5 s^3 - C_2 L_2 R_5 g_m s^2 + C_2 L_2 s^2 - C_2 R_5 s + C_5\right.}{2C_2 C_5 C_L L_2 R_5 R_L g_m s^4 + C_2 C_5 C_L L_2 R_5 s^4 + 4C_2 C_5 C_L R_5 R_L s^3 + 2C_2 C_5 L_2 R_5 g_m s^3 + 4C_2 C_5 R_5 s^2 + C_2 C_L L_2 R_5 g_m s^3 + 2C_2 C_L L_2 R_L g_m s^3 + C_2 C_L L_2 s^3 + C_2 C_L R_5 s^2 + 4C_2$$

10.383 INVALID-ORDER-383 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 L_2 R_5 s^3 - C_2 L_2 R_5 g_m s^2 + C_2 L_2 s^2 - C_2 R_5 s + C\right.}{2C_2 C_5 C_L L_2 L_L R_5 g_m s^5 + C_2 C_5 C_L L_2 R_5 s^4 + 4C_2 C_5 C_L L_L R_5 s^4 + 2C_2 C_5 L_2 R_5 g_m s^3 + 4C_2 C_5 R_5 s^2 + 2C_2 C_L L_2 L_L g_m s^4 + C_2 C_L L_2 R_5 g_m s^3 + C_2 C_L L_2 s^3 + 4C_2 C_L L_L s^3 + C_2$$

10.384 INVALID-ORDER-384 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s \left(-C_2 C_5 L_2 R_5 s^3 + C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s - C_5 R_5 s\right.}{C_2 C_5 C_L L_2 L_L R_5 s^5 + 2C_2 C_5 L_2 L_L R_5 g_m s^4 + C_2 C_5 L_2 R_5 s^3 + 4C_2 C_5 L_L R_5 s^3 + C_2 C_L L_2 L_L R_5 g_m s^4 + C_2 C_L L_2 L_L s^4 + C_2 C_L L_L R_5 s^3 + 2C_2 L_2 L_L g_m s^3 + C_2 L_2 R_5 g_m s^2 + C_2 L_2$$

10.385 INVALID-ORDER-385 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{\left(C_L L_L s^2 + C_L\right.}{2C_2 C_5 C_L L_2 L_L R_5 g_m s^5 + 2C_2 C_5 C_L L_2 R_5 R_L g_m s^4 + C_2 C_5 C_L L_2 R_5 s^4 + 4C_2 C_5 C_L L_L R_5 s^4 + 4C_2 C_5 C_L R_5 R_L s^3 + 2C_2 C_5 L_2 R_5 g_m s^3 + 4C_2 C_5 R_5 s^2 + 2C_2 C_L L_2 L_L g_m s^4 + C_2$$

10.386 INVALID-ORDER-386 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_LR_5R_Ls^5 + 2C_2C_5L_2L_LR_5R_Lg_ms^4 + C_2C_5L_2L_LR_5s^4 + C_2C_5L_2R_5R_Ls^3 + 4C_2C_5L_LR_5R_Ls^3 + C_2C_LL_2L_LR_5R_Lg_ms^4 + C_2C_LL_2L_LR_Ls^4 + C_2C_LL_LR_5R_Ls^3}$$

10.387 INVALID-ORDER-387 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_LR_5R_Lg_ms^5 + C_2C_5C_LL_2L_LR_5s^5 + 4C_2C_5C_LL_LR_5R_Ls^4 + 2C_2C_5L_2L_LR_5g_ms^4 + 2C_2C_5L_2R_5R_Lg_ms^3 + C_2C_5L_2R_5s^3 + 4C_2C_5L_LR_5s^3 + 4C_2C_5R_5R_Ls^2 +}$$

10.388 INVALID-ORDER-388 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_LR_5R_Lg_ms^5 + C_2C_5C_LL_2L_LR_5s^5 + C_2C_5C_LL_2R_5R_Ls^4 + 4C_2C_5C_LL_LR_5R_Ls^4 + 2C_2C_5L_2R_5R_Lg_ms^3 + C_2C_5L_2R_5s^3 + 4C_2C_5R_5R_Ls^2 + C_2C_LL_2L_LR_5g_m}$$

10.389 INVALID-ORDER-389 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5R_5s^2 + C_2L_2g_ms^2 + C_2s + C_5R_5g_ms - C_5s + g_m\right)}{C_2C_5L_2R_5g_ms^3 + 2C_2C_5L_2R_Lg_ms^3 + C_2C_5L_2s^3 + C_2C_5R_5s^2 + 4C_2C_5R_Ls^2 + C_2L_2g_ms^2 + C_2s + C_5R_5g_ms + 2C_5R_Lg_ms + C_5s + g_m}$$

10.390 INVALID-ORDER-390 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5R_5s^2 + C_2L_2g_ms^2 + C_2s + C_5R_5g_ms - C_5s + g_m}{s\left(C_2C_5C_LL_2R_5g_ms^3 + C_2C_5C_LL_2s^3 + C_2C_5C_LR_5s^2 + 2C_2C_5L_2g_ms^2 + 4C_2C_5s + C_2C_LL_2g_ms^2 + C_2C_Ls + C_5C_LR_5g_ms + C_5C_Ls + 2C_5g_m + C_Lg_m\right)}$$

10.391 INVALID-ORDER-391 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L \left(C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 R_5 s^2 + C_2 L_2 g_m s^2 + C_2 s + C_5 R_5 g_m s}{C_2 C_5 C_L L_2 R_5 R_L g_m s^4 + C_2 C_5 C_L L_2 R_L s^4 + C_2 C_5 C_L R_5 R_L s^3 + C_2 C_5 L_2 R_5 g_m s^3 + 2 C_2 C_5 L_2 R_L g_m s^3 + C_2 C_5 L_2 s^3 + C_2 C_5 R_5 s^2 + 4 C_2 C_5 R_L s^2 + C_2 C_L L_2 R_L g_m s^3 + C_2 C_L R_L}$$

10.392 INVALID-ORDER-392 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1) \left(C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 R_5 s^2 + C_2 L_2 g_m s^2 + C_2 s + C_5 R_5 g_m s - C_5 s + g_m\right)}{s \left(C_2 C_5 C_L L_2 R_5 g_m s^3 + 2 C_2 C_5 C_L L_2 R_L g_m s^3 + C_2 C_5 C_L L_2 s^3 + C_2 C_5 C_L R_5 s^2 + 4 C_2 C_5 C_L R_L s^2 + 2 C_2 C_5 L_2 g_m s^2 + 4 C_2 C_5 s + C_2 C_L L_2 g_m s^2 + C_2 C_L s + C_5 C_L R_5 g_m s + 2 C_5 C}$$

10.393 INVALID-ORDER-393 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right) \left(C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 R_5 s^2 + C_2 L_2 g_m s^2 + C_2 s + C_5 R_5 g_m s - C_5 s + g_m\right)}{s \left(2 C_2 C_5 C_L L_2 L_L g_m s^4 + C_2 C_5 C_L L_2 R_5 g_m s^3 + C_2 C_5 C_L L_2 s^3 + 4 C_2 C_5 C_L L_L s^3 + C_2 C_5 C_L R_5 s^2 + 2 C_2 C_5 L_2 g_m s^2 + 4 C_2 C_5 s + C_2 C_L L_2 g_m s^2 + C_2 C_L s + 2 C_5 C_L L_L g_m s^2 + C_5 C\right)}$$

10.394 INVALID-ORDER-394 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s \left(C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 R_5 s^2 + C_2 L_2 g_m s^2 + C_2 s + C_5 R_5 g_m \right.}{C_2 C_5 C_L L_2 L_L R_5 g_m s^5 + C_2 C_5 C_L L_2 L_L s^5 + C_2 C_5 C_L L_L R_5 s^4 + 2 C_2 C_5 L_2 L_L g_m s^4 + C_2 C_5 L_2 R_5 g_m s^3 + C_2 C_5 L_2 s^3 + 4 C_2 C_5 L_L s^3 + C_2 C_5 R_5 s^2 + C_2 C_L L_2 L_L g_m s^4 + C_2 C_L L_L s}$$

10.395 INVALID-ORDER-395 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right) \left(C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 R_5 s^2 + C_2 L_2 g_m s^2 + C_2 s + C_5 R_5 g_m s - C_5 s + g_m\right)}{s \left(2 C_2 C_5 C_L L_2 L_L g_m s^4 + C_2 C_5 C_L L_2 R_5 g_m s^3 + 2 C_2 C_5 C_L L_2 R_L g_m s^3 + C_2 C_5 C_L L_2 s^3 + 4 C_2 C_5 C_L L_L s^3 + C_2 C_5 C_L R_5 s^2 + 4 C_2 C_5 C_L R_L s^2 + 2 C_2 C_5 L_2 g_m s^2 + 4 C_2 C_5 s + C_2 C_L}$$

10.396 INVALID-ORDER-396 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_LR_5R_Lg_ms^5 + C_2C_5C_LL_2L_LR_Ls^5 + C_2C_5C_LL_LR_5R_Ls^4 + C_2C_5L_2L_LR_5g_ms^4 + 2C_2C_5L_2L_LR_Lg_ms^4 + C_2C_5L_2L_Ls^4 + C_2C_5L_2R_5R_Lg_ms^3 + C_2C_5L_2R_Ls^3 +$$

10.397 INVALID-ORDER-397 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{\left(C_LL_LR_Ls^2 + L_Ls + R_L\right)\left(C_2C\right.}{C_2C_5C_LL_2L_LR_5g_ms^5 + 2C_2C_5C_LL_2L_LR_Lg_ms^5 + C_2C_5C_LL_2L_Ls^5 + C_2C_5C_LL_LR_5s^4 + 4C_2C_5C_LL_LR_Ls^4 + 2C_2C_5L_2L_Lg_ms^4 + C_2C_5L_2R_5g_ms^3 + 2C_2C_5L_2R_Lg_ms^3 + C_2}$$

10.398 INVALID-ORDER-398 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_LR_5g_ms^5 + 2C_2C_5C_LL_2L_LR_Lg_ms^5 + C_2C_5C_LL_2L_Ls^5 + C_2C_5C_LL_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_Ls^4 + C_2C_5C_LL_LR_5s^4 + 4C_2C_5C_LL_LR_Ls^4 + C_2C_5C_LR_5R_Ls^3}$$

10.399 INVALID-ORDER-399 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2L_5g_ms^4 - C_2C_5L_2s^3 + C_2C_5L_5s^3 + C_2L_2g_ms^2 + C_2s + C_5L_5g_ms^2 - C_5s + g_m\right)}{C_2C_5L_2L_5g_ms^4 + 2C_2C_5L_2R_Lg_ms^3 + C_2C_5L_2s^3 + C_2C_5L_5s^3 + 4C_2C_5R_Ls^2 + C_2L_2g_ms^2 + C_2s + C_5L_5g_ms^2 + 2C_5R_Lg_ms + C_5s + g_m}$$

10.400 INVALID-ORDER-400 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2L_5g_ms^4 - C_2C_5L_2s^3 + C_2C_5L_5s^3 + C_2L_2g_ms^2 + C_2s + C_5L_5g_ms^2 - C_5s + g_m}{s\left(C_2C_5C_LL_2L_5g_ms^4 + C_2C_5C_LL_2s^3 + C_2C_5C_LL_5s^3 + 2C_2C_5L_2g_ms^2 + 4C_2C_5s + C_2C_LL_2g_ms^2 + C_2C_Ls + C_5C_LL_5g_ms^2 + C_5C_Ls + 2C_5g_m + C_Lg_m\right)}$$

10.401 INVALID-ORDER-401 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{R_L \left(C_2 C_5 L_2 L_5 g_m s^4 - C_2 C_5 L_2 s^3 + C_2 C_5 L_5 s^3 + C_2 L_2 g_m s^2 + C_2 s + C_5 L_5 g_m s^2 + C_5 s + g_m\right)}{C_2 C_5 C_L L_2 L_5 R_L g_m s^5 + C_2 C_5 C_L L_2 R_L s^4 + C_2 C_5 C_L L_5 R_L s^4 + C_2 C_5 L_2 L_5 g_m s^4 + 2 C_2 C_5 L_2 R_L g_m s^3 + C_2 C_5 L_2 s^3 + C_2 C_5 L_5 s^3 + 4 C_2 C_5 R_L s^2 + C_2 C_L L_2 R_L g_m s^3 + C_2 C_L R_L s}$$

10.402 INVALID-ORDER-402 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1) \left(C_2 C_5 L_2 L_5 g_m s^4 - C_2 C_5 L_2 s^3 + C_2 C_5 L_5 s^3 + C_2 L_2 g_m s^2 + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{s \left(C_2 C_5 C_L L_2 L_5 g_m s^4 + 2 C_2 C_5 C_L L_2 R_L g_m s^3 + C_2 C_5 C_L L_2 s^3 + C_2 C_5 C_L L_5 s^3 + 4 C_2 C_5 C_L R_L s^2 + 2 C_2 C_5 L_2 g_m s^2 + 4 C_2 C_5 s + C_2 C_L L_2 g_m s^2 + C_2 C_L s + C_5 C_L L_5 g_m s^2 + 2 C_5 C\right.}$$

10.403 INVALID-ORDER-403 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right) \left(C_2 C_5 L_2 L_5 g_m s^4 - C_2 C_5 L_2 s^3 + C_2 C_5 L_5 s^3 + C_2 L_2 g_m s^2 + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{s \left(C_2 C_5 C_L L_2 L_5 g_m s^4 + 2 C_2 C_5 C_L L_2 L_L g_m s^4 + C_2 C_5 C_L L_2 s^3 + C_2 C_5 C_L L_5 s^3 + 4 C_2 C_5 C_L L_L s^3 + 2 C_2 C_5 L_2 g_m s^2 + 4 C_2 C_5 s + C_2 C_L L_2 g_m s^2 + C_2 C_L s + C_5 C_L L_5 g_m s^2 + 2 C_5 C\right.}$$

10.404 INVALID-ORDER-404 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L s \left(C_2 C_5 L_2 L_5 g_m s^4 - C_2 C_5 L_2 s^3 + C_2 C_5 L_5 s^3 + C_2 L_2 g_m s^2 + C_2 s + C_5 L_5 g_m s^2 + C_5 s + g_m\right)}{C_2 C_5 C_L L_2 L_5 L_L g_m s^6 + C_2 C_5 C_L L_2 L_L s^5 + C_2 C_5 C_L L_5 L_L s^5 + C_2 C_5 L_2 L_5 g_m s^4 + 2 C_2 C_5 L_2 L_L g_m s^4 + C_2 C_5 L_2 s^3 + C_2 C_5 L_5 s^3 + 4 C_2 C_5 L_L s^3 + C_2 C_L L_2 L_L g_m s^4 + C_2 C_L L_L s^3}$$

10.405 INVALID-ORDER-405 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right) \left(C_2 C_5 L_2 L_5 g_m s^4 - C_2 C_5 L_2 s^3 + C_2 C_5 L_5 s^3 + C_2 L_2 g_m s^2 + C_2 s + C_5 L\right.}{s \left(C_2 C_5 C_L L_2 L_5 g_m s^4 + 2 C_2 C_5 C_L L_2 L_L g_m s^4 + 2 C_2 C_5 C_L L_2 R_L g_m s^3 + C_2 C_5 C_L L_2 s^3 + C_2 C_5 C_L L_5 s^3 + 4 C_2 C_5 C_L L_L s^3 + 4 C_2 C_5 C_L R_L s^2 + 2 C_2 C_5 L_2 g_m s^2 + 4 C_2 C_5 s + C_2 C_L\right.}$$

10.406 INVALID-ORDER-406 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_Lg_ms^6 + C_2C_5C_LL_2L_LR_Ls^5 + C_2C_5C_LL_5L_LR_Ls^5 + C_2C_5L_2L_5L_Lg_ms^5 + C_2C_5L_2L_5R_Lg_ms^4 + 2C_2C_5L_2L_LR_Lg_ms^4 + C_2C_5L_2L_Ls^4 + C_2C_5L_2R_Ls^3 + C}$$

10.407 INVALID-ORDER-407 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{\left(C_LL_LR_Ls^2 + L_Ls + R_L\right)\left(C_2C\right.}{C_2C_5C_LL_2L_5L_Lg_ms^6 + 2C_2C_5C_LL_2L_LR_Lg_ms^5 + C_2C_5C_LL_2L_Ls^5 + C_2C_5C_LL_5L_Ls^5 + 4C_2C_5C_LL_LR_Ls^4 + C_2C_5L_2L_5g_ms^4 + 2C_2C_5L_2L_Lg_ms^4 + 2C_2C_5L_2R_Lg_ms^3 + C_2C}$$

10.408 INVALID-ORDER-408 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_Lg_ms^6 + C_2C_5C_LL_2L_5R_Lg_ms^5 + 2C_2C_5C_LL_2L_LR_Lg_ms^5 + C_2C_5C_LL_2L_Ls^5 + C_2C_5C_LL_2R_Ls^4 + C_2C_5C_LL_5L_Ls^5 + C_2C_5C_LL_5R_Ls^4 + 4C_2C_5C_LL_LR_Ls^4 +}$$

10.409 INVALID-ORDER-409 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2L_5s^4 + C_2L_2L_5g_ms^3 - C_2L_2s^2 + C_2L_5s^2 - C_5L_5s^2 + L_5g_ms - 1\right)}{2C_2C_5L_2L_5R_Lg_ms^4 + C_2C_5L_2L_5s^4 + 4C_2C_5L_5R_Ls^3 + C_2L_2L_5g_ms^3 + 2C_2L_2R_Lg_ms^2 + C_2L_2s^2 + C_2L_5s^2 + 4C_2R_Ls + 2C_5L_5R_Lg_ms^2 + C_5L_5s^2 + L_5g_ms + 2R_Lg_m + 1}$$

10.410 INVALID-ORDER-410 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2C_5L_2L_5s^4 + C_2L_2L_5g_ms^3 - C_2L_2s^2 + C_2L_5s^2 - C_5L_5s^2 + L_5g_ms - 1}{C_2C_5C_LL_2L_5s^5 + 2C_2C_5L_2L_5g_ms^4 + 4C_2C_5L_5s^3 + C_2C_LL_2L_5g_ms^4 + C_2C_LL_2s^3 + C_2C_LL_5s^3 + 2C_2L_2g_ms^2 + 4C_2s + C_5C_LL_5s^3 + 2C_5L_5g_ms^2 + C_LL_5g_ms^2 + C_Ls + 2g_}$$

10.411 INVALID-ORDER-411 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L \left(-C_2 C_5 L_2 L_5 s^4 + C_2 L_2 L_5 g_m s^3 - C_2 L_2 s^2 + C_2 L_5 s^2 - C_5 L_5 s^2 -}{C_2 C_5 C_L L_2 L_5 R_L s^5 + 2C_2 C_5 L_2 L_5 R_L g_m s^4 + C_2 C_5 L_2 L_5 s^4 + 4C_2 C_5 L_5 R_L s^3 + C_2 C_L L_2 L_5 R_L g_m s^4 + C_2 C_L L_2 R_L s^3 + C_2 C_L L_5 R_L s^3 + C_2 L_2 L_5 g_m s^3 + 2C_2 L_2 R_L g_m s^2 + C_2 L_2}$$

10.412 INVALID-ORDER-412 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{(C_L R_L s + 1)\left(C_2 C_5 L_2 L_5 s^4 - C_2 L_2 L_5 g_m s^3 + C_2 L_2 s^2 - C_2 L_5 s^2 + C_5\right.}{2C_2 C_5 C_L L_2 L_5 R_L g_m s^5 + C_2 C_5 C_L L_2 L_5 s^5 + 4C_2 C_5 C_L L_5 R_L s^4 + 2C_2 C_5 L_2 L_5 g_m s^4 + 4C_2 C_5 L_5 s^3 + C_2 C_L L_2 L_5 g_m s^4 + 2C_2 C_L L_2 R_L g_m s^3 + C_2 C_L L_2 s^3 + C_2 C_L L_5 s^3 + 4C_2 C}$$

10.413 INVALID-ORDER-413 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 L_2 L_5 s^4 - C_2 L_2 L_5 g_m s^3 + C_2 L_2 s^2 - C_2 L_5 s^2 + C_{5}\right.}{2C_2 C_5 C_L L_2 L_5 L_L g_m s^6 + C_2 C_5 C_L L_2 L_5 s^5 + 4C_2 C_5 C_L L_5 L_L s^5 + 2C_2 C_5 L_2 L_5 g_m s^4 + 4C_2 C_5 L_5 s^3 + C_2 C_L L_2 L_5 g_m s^4 + 2C_2 C_L L_2 L_L g_m s^4 + C_2 C_L L_2 s^3 + C_2 C_L L_5 s^3 + 4C_2 C}$$

10.414 INVALID-ORDER-414 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s \left(-C_2 C_5 L_2 L_5 s^4 + C_2 L_2 L_5 g_m s^3 - C_2 L_2 s^2 + C_2 L_5 s^2 - C_5 L_5 s^2 \right.}{C_2 C_5 C_L L_2 L_5 L_L s^6 + 2C_2 C_5 L_2 L_5 L_L g_m s^5 + C_2 C_5 L_2 L_5 s^4 + 4C_2 C_5 L_5 L_L s^4 + C_2 C_L L_2 L_5 L_L g_m s^5 + C_2 C_L L_2 L_L s^4 + C_2 C_L L_5 L_L s^4 + C_2 L_2 L_5 g_m s^3 + 2C_2 L_2 L_L g_m s^3 + C_2 L_2 s^{2}}$$

10.415 INVALID-ORDER-415 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{\left(C_L L_L s^2 + C_L R\right.}{2C_2 C_5 C_L L_2 L_5 L_L g_m s^6 + 2C_2 C_5 C_L L_2 L_5 R_L g_m s^5 + C_2 C_5 C_L L_2 L_5 s^5 + 4C_2 C_5 C_L L_5 L_L s^5 + 4C_2 C_5 C_L L_5 R_L s^4 + 2C_2 C_5 L_2 L_5 g_m s^4 + 4C_2 C_5 L_5 s^3 + C_2 C_L L_2 L_5 g_m s^4 + 2C_2 C_{L}}$$

10.416 INVALID-ORDER-416 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_Ls^6 + 2C_2C_5L_2L_5L_LR_Lg_ms^5 + C_2C_5L_2L_5L_Ls^5 + C_2C_5L_2L_5R_Ls^4 + 4C_2C_5L_5L_LR_Ls^4 + C_2C_LL_2L_5L_LR_Lg_ms^5 + C_2C_LL_2L_LR_Ls^4 + C_2C_LL_5L_LR_Ls^4 +$$

10.417 INVALID-ORDER-417 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5L_LR_Lg_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + 4C_2C_5C_LL_5L_LR_Ls^5 + 2C_2C_5L_2L_5L_Lg_ms^5 + 2C_2C_5L_2L_5R_Lg_ms^4 + C_2C_5L_2L_5s^4 + 4C_2C_5L_5L_Ls^4 + 4C_2C_5L_5R_Ls^3 +$$

10.418 INVALID-ORDER-418 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5L_LR_Lg_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_Ls^5 + 4C_2C_5C_LL_5L_LR_Ls^5 + 2C_2C_5L_2L_5R_Lg_ms^4 + C_2C_5L_2L_5s^4 + 4C_2C_5L_5R_Ls^3 + C_2C_LL_2L_5L_Lg_ms$$

10.419 INVALID-ORDER-419 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2L_5g_ms^4 + C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5L_5s^3 + C_2C_5R_5s^2 + C_2L_2g_ms^2 + C_2s + C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{C_2C_5L_2L_5g_ms^4 + C_2C_5L_2R_5g_ms^3 + 2C_2C_5L_2R_Lg_ms^3 + C_2C_5L_2s^3 + C_2C_5L_5s^3 + C_2C_5R_5s^2 + 4C_2C_5R_Ls^2 + C_2L_2g_ms^2 + C_2s + C_5L_5g_ms^2 + C_5R_5g_ms + 2C_5R_Lg_ms + C}$$

10.420 INVALID-ORDER-420 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2L_5g_ms^4 + C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5L_5s^3 + C_2C_5R_5s^2 + C_2L_2g_ms^2 + C_2s + C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m}{s\left(C_2C_5C_LL_2L_5g_ms^4 + C_2C_5C_LL_2R_5g_ms^3 + C_2C_5C_LL_2s^3 + C_2C_5C_LL_5s^3 + C_2C_5C_LR_5s^2 + 2C_2C_5L_2g_ms^2 + 4C_2C_5s + C_2C_LL_2g_ms^2 + C_2C_Ls + C_5C_LL_5g_ms^2 + C_5C_LR\right.}$$

10.421 INVALID-ORDER-421 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L \left(C_2 C_5 L_2 L_5 g_m s^4 + C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5$$
$$C_2 C_5 C_L L_2 L_5 R_L g_m s^5 + C_2 C_5 C_L L_2 R_5 R_L g_m s^4 + C_2 C_5 C_L L_2 R_L s^4 + C_2 C_5 C_L L_5 R_L s^4 + C_2 C_5 C_L R_5 R_L s^3 + C_2 C_5 L_2 L_5 g_m s^4 + C_2 C_5 L_2 R_5 g_m s^3 + 2 C_2 C_5 L_2 R_L g_m s^3 + C_2 C_5 L$$

10.422 INVALID-ORDER-422 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1) \left(C_2 C_5 L_2 L_5 g_m s^4 + C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 L_5 s^3 + C_2 C_5 R_5 s^2 + C_2 L_2 g_m s^2 + C_2 s + C_5$$
$$s \left(C_2 C_5 C_L L_2 L_5 g_m s^4 + C_2 C_5 C_L L_2 R_5 g_m s^3 + 2 C_2 C_5 C_L L_2 R_L g_m s^3 + C_2 C_5 C_L L_2 s^3 + C_2 C_5 C_L L_5 s^3 + C_2 C_5 C_L R_5 s^2 + 4 C_2 C_5 C_L R_L s^2 + 2 C_2 C_5 L_2 g_m s^2 + 4 C_2 C_5 s + C_2 C_L L_2$$

10.423 INVALID-ORDER-423 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right) \left(C_2 C_5 L_2 L_5 g_m s^4 + C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 L_5 s^3 + C_2 C_5 R_5 s^2 + C_2 L_2 g_m s^2 + C_2 s + C$$
$$s \left(C_2 C_5 C_L L_2 L_5 g_m s^4 + 2 C_2 C_5 C_L L_2 L_L g_m s^4 + C_2 C_5 C_L L_2 R_5 g_m s^3 + C_2 C_5 C_L L_2 s^3 + C_2 C_5 C_L L_5 s^3 + 4 C_2 C_5 C_L L_L s^3 + C_2 C_5 C_L R_5 s^2 + 2 C_2 C_5 L_2 g_m s^2 + 4 C_2 C_5 s + C_2 C_L L_2 g$$

10.424 INVALID-ORDER-424 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s \left(C_2 C_5 L_2 L_5 g_m s^4 + C_2 C_5 L_2 R_5 g_m s^3 - C_2 C$$
$$C_2 C_5 C_L L_2 L_5 L_L g_m s^6 + C_2 C_5 C_L L_2 L_L R_5 g_m s^5 + C_2 C_5 C_L L_2 L_L s^5 + C_2 C_5 C_L L_5 L_L s^5 + C_2 C_5 C_L L_L R_5 s^4 + C_2 C_5 L_2 L_5 g_m s^4 + 2 C_2 C_5 L_2 L_L g_m s^4 + C_2 C_5 L_2 R_5 g_m s^3 + C_2 C_5 L_2$$

10.425 INVALID-ORDER-425 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right) \left(C_2 C_5 L_2 L_5 g_m s^4 + C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 L_5 s^3 + C$$
$$s \left(C_2 C_5 C_L L_2 L_5 g_m s^4 + 2 C_2 C_5 C_L L_2 L_L g_m s^4 + C_2 C_5 C_L L_2 R_5 g_m s^3 + 2 C_2 C_5 C_L L_2 R_L g_m s^3 + C_2 C_5 C_L L_2 s^3 + C_2 C_5 C_L L_5 s^3 + 4 C_2 C_5 C_L L_L s^3 + C_2 C_5 C_L R_5 s^2 + 4 C_2 C_5 C_L R_L s$$

10.426 INVALID-ORDER-426 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_Lg_ms^6 + C_2C_5C_LL_2L_LR_5R_Lg_ms^5 + C_2C_5C_LL_2L_LR_Ls^5 + C_2C_5C_LL_5L_LR_Ls^5 + C_2C_5C_LL_LR_5R_Ls^4 + C_2C_5L_2L_5L_Lg_ms^5 + C_2C_5L_2L_5R_Lg_ms^4 + C_2C_5$$

10.427 INVALID-ORDER-427 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_Lg_ms^6 + C_2C_5C_LL_2L_LR_5g_ms^5 + 2C_2C_5C_LL_2L_LR_Lg_ms^5 + C_2C_5C_LL_2L_Ls^5 + C_2C_5C_LL_5L_Ls^5 + C_2C_5C_LL_LR_5s^4 + 4C_2C_5C_LL_LR_Ls^4 + C_2C_5L_2L_5g_ms^4 +$$

10.428 INVALID-ORDER-428 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_Lg_ms^6 + C_2C_5C_LL_2L_5R_Lg_ms^5 + C_2C_5C_LL_2L_LR_5g_ms^5 + 2C_2C_5C_LL_2L_LR_Lg_ms^5 + C_2C_5C_LL_2L_Ls^5 + C_2C_5C_LL_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_Ls^4 + C_2C_5C_L$$

10.429 INVALID-ORDER-429 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2L_5R_5s^4 + C_2L_2L_5R_5g_ms^3 - C_2L_2L_5s^3 - C_2L_2R_5s^2 + C_2L_5R_5s^2 - C_5L_5R_5s^2 +\right.}{2C_2C_5L_2L_5R_5R_Lg_ms^4 + C_2C_5L_2L_5R_5s^4 + 4C_2C_5L_5R_5R_Ls^3 + C_2L_2L_5R_5g_ms^3 + 2C_2L_2L_5R_Lg_ms^3 + C_2L_2L_5s^3 + 2C_2L_2R_5R_Lg_ms^2 + C_2L_2R_5s^2 + C_2L_5R_5s^2 + 4C_2L_5R_L$$

10.430 INVALID-ORDER-430 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2C_5L_2L_5R_5s^4 + C_2L_2L_5R_5g_ms^3 - C_2L_2L_5s^3 - C_2L_2R_5s^2 + C_2L_5R_5s^2 - C_5L_5R_5s^2 +}{C_2C_5C_LL_2L_5R_5s^5 + 2C_2C_5L_2L_5R_5g_ms^4 + 4C_2C_5L_5R_5s^3 + C_2C_LL_2L_5R_5g_ms^4 + C_2C_LL_2L_5s^4 + C_2C_LL_2R_5s^3 + C_2C_LL_5R_5s^3 + 2C_2L_2L_5g_ms^3 + 2C_2L_2R_5g_ms^2 + 4C_2L_5$$

10.431 INVALID-ORDER-431 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{R_L \left(-C\right.}{C_2 C_5 C_L L_2 L_5 R_5 R_L s^5 + 2 C_2 C_5 L_2 L_5 R_5 R_L g_m s^4 + C_2 C_5 L_2 L_5 R_5 s^4 + 4 C_2 C_5 L_5 R_5 R_L s^3 + C_2 C_L L_2 L_5 R_5 R_L g_m s^4 + C_2 C_L L_2 L_5 R_L s^4 + C_2 C_L L_2 R_5 R_L s^3 + C_2 C_L L_5 R_5 R_L s^3 +}$$

10.432 INVALID-ORDER-432 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{}{2 C_2 C_5 C_L L_2 L_5 R_5 R_L g_m s^5 + C_2 C_5 C_L L_2 L_5 R_5 s^5 + 4 C_2 C_5 C_L L_5 R_5 R_L s^4 + 2 C_2 C_5 L_2 L_5 R_5 g_m s^4 + 4 C_2 C_5 L_5 R_5 s^3 + C_2 C_L L_2 L_5 R_5 g_m s^4 + 2 C_2 C_L L_2 L_5 R_L g_m s^4 + C_2 C_L L_2 L_5 s}$$

10.433 INVALID-ORDER-433 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{}{2 C_2 C_5 C_L L_2 L_5 L_L R_5 g_m s^6 + C_2 C_5 C_L L_2 L_5 R_5 s^5 + 4 C_2 C_5 C_L L_5 L_L R_5 s^5 + 2 C_2 C_5 L_2 L_5 R_5 g_m s^4 + 4 C_2 C_5 L_5 R_5 s^3 + 2 C_2 C_L L_2 L_5 L_L g_m s^5 + C_2 C_L L_2 L_5 R_5 g_m s^4 + C_2 C_L L_2 L_5 s^4}$$

10.434 INVALID-ORDER-434 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L s \left(-C\right.}{C_2 C_5 C_L L_2 L_5 L_L R_5 s^6 + 2 C_2 C_5 L_2 L_5 L_L R_5 g_m s^5 + C_2 C_5 L_2 L_5 R_5 s^4 + 4 C_2 C_5 L_5 L_L R_5 s^4 + C_2 C_L L_2 L_5 L_L R_5 g_m s^5 + C_2 C_L L_2 L_5 L_L s^5 + C_2 C_L L_2 L_L R_5 s^4 + C_2 C_L L_5 L_L R_5 s^4 + 2}$$

10.435 INVALID-ORDER-435 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{}{2 C_2 C_5 C_L L_2 L_5 L_L R_5 g_m s^6 + 2 C_2 C_5 C_L L_2 L_5 R_5 R_L g_m s^5 + C_2 C_5 C_L L_2 L_5 R_5 s^5 + 4 C_2 C_5 C_L L_5 L_L R_5 s^5 + 4 C_2 C_5 C_L L_5 R_5 R_L s^4 + 2 C_2 C_5 L_2 L_5 R_5 g_m s^4 + 4 C_2 C_5 L_5 R_5 s^3 + 2 C_2 C}$$

10.436 INVALID-ORDER-436 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_5R_Ls^6 + 2C_2C_5L_2L_5L_LR_5R_Lg_ms^5 + C_2C_5L_2L_5L_LR_5s^5 + C_2C_5L_2L_5R_5R_Ls^4 + 4C_2C_5L_5L_LR_5R_Ls^4 + C_2C_LL_2L_5L_LR_5R_Lg_ms^5 + C_2C_LL_2L_5L_LR_Ls^5 +}$$

10.437 INVALID-ORDER-437 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5L_LR_5R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_5s^6 + 4C_2C_5C_LL_5L_LR_5R_Ls^5 + 2C_2C_5L_2L_5L_LR_5g_ms^5 + 2C_2C_5L_2L_5R_5R_Lg_ms^4 + C_2C_5L_2L_5R_5s^4 + 4C_2C_5L_5L_LR_5s^4}$$

10.438 INVALID-ORDER-438 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5L_LR_5R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_5s^6 + C_2C_5C_LL_2L_5R_5R_Ls^5 + 4C_2C_5C_LL_5L_LR_5R_Ls^5 + 2C_2C_5L_2L_5R_5R_Lg_ms^4 + C_2C_5L_2L_5R_5s^4 + 4C_2C_5L_5R_5R_Ls^3 +}$$

10.439 INVALID-ORDER-439 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5,\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2L_5R_5g_ms^4 - C_2C_5L_2L_5s^4 + C_2C_5L_5R_5s^3 + C_2L_2L_5g_ms^3 + C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2L_5s^2 + C_2R_5s + C_5L_5R\right.}{C_2C_5L_2L_5R_5g_ms^4 + 2C_2C_5L_2L_5R_Lg_ms^4 + C_2C_5L_2L_5s^4 + C_2C_5L_5R_5s^3 + 4C_2C_5L_5R_Ls^3 + C_2L_2L_5g_ms^3 + C_2L_2R_5g_ms^2 + 2C_2L_2R_Lg_ms^2 + C_2L_2s^2 + C_2L_5s^2 + C_2R_5s +}$$

10.440 INVALID-ORDER-440 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5,\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2L_5R_5g_ms^4 - C_2C_5L_2L_5s^4 + C_2C_5L_5R_5s^3 + C_2L_2L_5g_ms^3 + C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2L_5s^2 + C_2R_5s}{C_2C_5C_LL_2L_5R_5g_ms^5 + C_2C_5C_LL_2L_5s^5 + C_2C_5C_LL_5R_5s^4 + 2C_2C_5L_2L_5g_ms^4 + 4C_2C_5L_5s^3 + C_2C_LL_2L_5g_ms^4 + C_2C_LL_2R_5g_ms^3 + C_2C_LL_2s^3 + C_2C_LL_5s^3 + C_2C_LR_5s^2}$$

10.441 INVALID-ORDER-441 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L}{C_2C_5C_LL_2L_5R_5R_Lg_ms^5 + C_2C_5C_LL_2L_5R_Ls^5 + C_2C_5C_LL_5R_5R_Ls^4 + C_2C_5L_2L_5R_5g_ms^4 + 2C_2C_5L_2L_5R_Lg_ms^4 + C_2C_5L_2L_5s^4 + C_2C_5L_5R_5s^3 + 4C_2C_5L_5R_Ls^3 + C_2C_LL}$$

10.442 INVALID-ORDER-442 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(C_2C_5L_2L_5R_5g_ms^4 - C_2C_5L_2L_5s^4 + C_2C_5L_5R\right.}{C_2C_5C_LL_2L_5R_5g_ms^5 + 2C_2C_5C_LL_2L_5R_Lg_ms^5 + C_2C_5C_LL_2L_5s^5 + C_2C_5C_LL_5R_5s^4 + 4C_2C_5C_LL_5R_Ls^4 + 2C_2C_5L_2L_5g_ms^4 + 4C_2C_5L_5s^3 + C_2C_LL_2L_5g_ms^4 + C_2C_LL_2R_5}$$

10.443 INVALID-ORDER-443 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2+1\right)\left(C_2C_5L_2L_5R_5g_ms^4 - C_2C_5L_2L_5s^4 + C_2C_5L_5\right.}{2C_2C_5C_LL_2L_5L_Lg_ms^6 + C_2C_5C_LL_2L_5R_5g_ms^5 + C_2C_5C_LL_2L_5s^5 + 4C_2C_5C_LL_5L_Ls^5 + C_2C_5C_LL_5R_5s^4 + 2C_2C_5L_2L_5g_ms^4 + 4C_2C_5L_5s^3 + C_2C_LL_2L_5g_ms^4 + 2C_2C_LL_2L}$$

10.444 INVALID-ORDER-444 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L}{C_2C_5C_LL_2L_5L_LR_5g_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_5L_LR_5s^5 + 2C_2C_5L_2L_5L_Lg_ms^5 + C_2C_5L_2L_5R_5g_ms^4 + C_2C_5L_2L_5s^4 + 4C_2C_5L_5L_Ls^4 + C_2C_5L_5R_5s^3 + C_2C_LL_2}$$

10.445 INVALID-ORDER-445 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_LL_Ls\right.}{2C_2C_5C_LL_2L_5L_Lg_ms^6 + C_2C_5C_LL_2L_5R_5g_ms^5 + 2C_2C_5C_LL_2L_5R_Lg_ms^5 + C_2C_5C_LL_2L_5s^5 + 4C_2C_5C_LL_5L_Ls^5 + C_2C_5C_LL_5R_5s^4 + 4C_2C_5C_LL_5R_Ls^4 + 2C_2C_5L_2L_5g_ms^4}$$

10.446 INVALID-ORDER-446 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_5R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_Ls^6 + C_2C_5C_LL_5L_LR_5R_Ls^5 + C_2C_5L_2L_5L_LR_5g_ms^5 + 2C_2C_5L_2L_5L_LR_Lg_ms^5 + C_2C_5L_2L_5L_Ls^5 + C_2C_5L_2L_5R_5R_Lg_ms^4}$$

10.447 INVALID-ORDER-447 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_5g_ms^6 + 2C_2C_5C_LL_2L_5L_LR_Lg_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_5L_LR_5s^5 + 4C_2C_5C_LL_5L_LR_Ls^5 + 2C_2C_5L_2L_5L_Lg_ms^5 + C_2C_5L_2L_5R_5g_ms^4 + 2C_2C}$$

10.448 INVALID-ORDER-448 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_5g_ms^6 + 2C_2C_5C_LL_2L_5L_LR_Lg_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_5R_Lg_ms^5 + C_2C_5C_LL_2L_5R_Ls^5 + C_2C_5C_LL_5L_LR_5s^5 + 4C_2C_5C_LL_5L_LR_Ls^5 +}$$

10.449 INVALID-ORDER-449 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2L_5R_5g_ms^4 - C_2C_5L_2L_5s^4 - C_2C_5L_2R_5s^3 + C_2C_5L_5R_5s^3 + C_2L_2R_5g_ms^2 - C_2L_2s^2 + \right.}{C_2C_5L_2L_5R_5g_ms^4 + 2C_2C_5L_2L_5R_Lg_ms^4 + C_2C_5L_2L_5s^4 + 2C_2C_5L_2R_5R_Lg_ms^3 + C_2C_5L_2R_5s^3 + C_2C_5L_5R_5s^3 + 4C_2C_5L_5R_Ls^3 + 4C_2C_5R_5R_Ls^2 + C_2L_2R_5g_ms^2 + 2C_2L_2}$$

10.450 INVALID-ORDER-450 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2L_5R_5g_ms^4 - C_2C_5L_2L_5s^4 - C_2C_5L_2R_5s^3 + C_2C_5L_5R_5s^3 + C_2L_2R_5g_ms^2 - C_2L}{C_2C_5C_LL_2L_5R_5g_ms^5 + C_2C_5C_LL_2L_5s^5 + C_2C_5C_LL_2R_5s^4 + C_2C_5C_LL_5R_5s^4 + 2C_2C_5L_2L_5g_ms^4 + 2C_2C_5L_2R_5g_ms^3 + 4C_2C_5L_5s^3 + 4C_2C_5R_5s^2 + C_2C_LL_2R_5g_ms^3 + C_2C}$$

10.451 INVALID-ORDER-451 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_2C_5C_LL_2L_5R_5R_Lg_ms^5 + C_2C_5C_LL_2L_5R_Ls^5 + C_2C_5C_LL_2R_5R_Ls^4 + C_2C_5C_LL_5R_5R_Ls^4 + C_2C_5L_2L_5R_5g_ms^4 + 2C_2C_5L_2L_5R_Lg_ms^4 + C_2C_5L_2L_5s^4 + 2C_2C_5L_2R_5R_Lg_m}{}$$

10.452 INVALID-ORDER-452 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_LI}{C_2C_5C_LL_2L_5R_5g_ms^5 + 2C_2C_5C_LL_2L_5R_Lg_ms^5 + C_2C_5C_LL_2L_5s^5 + 2C_2C_5C_LL_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_5s^4 + C_2C_5C_LL_5R_5s^4 + 4C_2C_5C_LL_5R_Ls^4 + 4C_2C_5C_LR_5R_Ls^3}$$

10.453 INVALID-ORDER-453 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_LL}{2C_2C_5C_LL_2L_5L_Lg_ms^6 + C_2C_5C_LL_2L_5R_5g_ms^5 + C_2C_5C_LL_2L_5s^5 + 2C_2C_5C_LL_2L_LR_5g_ms^5 + C_2C_5C_LL_2R_5s^4 + 4C_2C_5C_LL_5L_Ls^5 + C_2C_5C_LL_5R_5s^4 + 4C_2C_5C_LL_LR_5s^4 -}$$

10.454 INVALID-ORDER-454 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_2C_5C_LL_2L_5L_LR_5g_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_LR_5s^5 + C_2C_5C_LL_5L_LR_5s^5 + 2C_2C_5L_2L_5L_Lg_ms^5 + C_2C_5L_2L_5R_5g_ms^4 + C_2C_5L_2L_5s^4 + 2C_2C_5L_2L_LR_5g_ms}{}$$

10.455 INVALID-ORDER-455 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{2C_2C_5C_LL_2L_5L_Lg_ms^6 + C_2C_5C_LL_2L_5R_5g_ms^5 + 2C_2C_5C_LL_2L_5R_Lg_ms^5 + C_2C_5C_LL_2L_5s^5 + 2C_2C_5C_LL_2L_LR_5g_ms^5 + 2C_2C_5C_LL_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_5s^4 + 4C_2C_}{}$$

10.456 INVALID-ORDER-456 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_5R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_Ls^6 + C_2C_5C_LL_2L_LR_5R_Ls^5 + C_2C_5C_LL_5L_LR_5R_Ls^5 + C_2C_5L_2L_5L_LR_5g_ms^5 + 2C_2C_5L_2L_5L_LR_Lg_ms^5 + C_2C_5L_2L_5L_Ls^5}$$

10.457 INVALID-ORDER-457 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_5g_ms^6 + 2C_2C_5C_LL_2L_5L_LR_Lg_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + 2C_2C_5C_LL_2L_LR_5R_Lg_ms^5 + C_2C_5C_LL_2L_LR_5s^5 + C_2C_5C_LL_5L_LR_5s^5 + 4C_2C_5C_LL_5L_LR_Ls^5}$$

10.458 INVALID-ORDER-458 $Z(s) = \left(\infty,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_5g_ms^6 + 2C_2C_5C_LL_2L_5L_LR_Lg_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_5R_Lg_ms^5 + C_2C_5C_LL_2L_5R_Ls^5 + 2C_2C_5C_LL_2L_LR_5R_Lg_ms^5 + C_2C_5C_LL_2L_LR}$$

10.459 INVALID-ORDER-459 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2R_2R_5g_ms - C_2R_2s + C_2R_5s + R_5g_m - 1}{C_2C_LL_2R_5g_ms^3 + C_2C_LL_2s^3 + C_2C_LR_2R_5g_ms^2 + C_2C_LR_2s^2 + C_2C_LR_5s^2 + 2C_2L_2g_ms^2 + 2C_2R_2g_ms + 4C_2s + C_LR_5g_ms + C_Ls + 2g_m}$$

10.460 INVALID-ORDER-460 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{R_L\left(C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2R_2R_5g_ms - C_2R_2s + C_2R_5s + R_5g_m - 1\right)}{C_2C_LL_2R_5R_Lg_ms^3 + C_2C_LL_2R_Ls^3 + C_2C_LR_2R_5R_Lg_ms^2 + C_2C_LR_2R_Ls^2 + C_2C_LR_5R_Ls^2 + C_2L_2R_5g_ms^2 + 2C_2L_2R_Lg_ms^2 + C_2L_2s^2 + C_2R_2R_5g_ms + 2C_2R_2R_Lg_ms + C}$$

10.461 INVALID-ORDER-461 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1)\left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s + R_5 g_m - 1\right)}{C_2 C_L L_2 R_5 g_m s^3 + 2C_2 C_L L_2 R_L g_m s^3 + C_2 C_L L_2 s^3 + C_2 C_L R_2 R_5 g_m s^2 + 2C_2 C_L R_2 R_L g_m s^2 + C_2 C_L R_2 s^2 + C_2 C_L R_5 s^2 + 4C_2 C_L R_L s^2 + 2C_2 L_2 g_m s^2 + 2C_2 R_2 g_m s + 4C_2 s + C}$$

10.462 INVALID-ORDER-462 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s + R_5 g_m - 1\right)}{2C_2 C_L L_2 L_L g_m s^4 + C_2 C_L L_2 R_5 g_m s^3 + C_2 C_L L_2 s^3 + 2C_2 C_L L_L R_2 g_m s^3 + 4C_2 C_L L_L s^3 + C_2 C_L R_2 R_5 g_m s^2 + C_2 C_L R_2 s^2 + C_2 C_L R_5 s^2 + 2C_2 L_2 g_m s^2 + 2C_2 R_2 g_m s + 4C_2 s + 2}$$

10.463 INVALID-ORDER-463 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L s\left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s + R_5 g_m - 1\right)}{C_2 C_L L_2 L_L R_5 g_m s^4 + C_2 C_L L_2 L_L s^4 + C_2 C_L L_L R_2 R_5 g_m s^3 + C_2 C_L L_L R_2 s^3 + C_2 C_L L_L R_5 s^3 + 2C_2 L_2 L_L g_m s^3 + C_2 L_2 R_5 g_m s^2 + C_2 L_2 s^2 + 2C_2 L_L R_2 g_m s^2 + 4C_2 L_L s^2 + C_2 R_2}$$

10.464 INVALID-ORDER-464 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R\right.}{2C_2 C_L L_2 L_L g_m s^4 + C_2 C_L L_2 R_5 g_m s^3 + 2C_2 C_L L_2 R_L g_m s^3 + C_2 C_L L_2 s^3 + 2C_2 C_L L_L R_2 g_m s^3 + 4C_2 C_L L_L s^3 + C_2 C_L R_2 R_5 g_m s^2 + 2C_2 C_L R_2 R_L g_m s^2 + C_2 C_L R_2 s^2 + C_2 C_L R_5 s}$$

10.465 INVALID-ORDER-465 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s\left(C\right.}{C_2 C_L L_2 L_L R_5 R_L g_m s^4 + C_2 C_L L_2 L_L R_L s^4 + C_2 C_L L_L R_2 R_5 R_L g_m s^3 + C_2 C_L L_L R_2 R_L s^3 + C_2 C_L L_L R_5 R_L s^3 + C_2 L_2 L_L R_5 g_m s^3 + 2C_2 L_2 L_L R_L g_m s^3 + C_2 L_2 L_L s^3 + C_2 L_2 R_5 R}$$

10.466 INVALID-ORDER-466 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{\left(C_L L_L R_L s^2 + L_L s + R_L\right)}{C_2 C_L L_2 L_L R_5 g_m s^4 + 2C_2 C_L L_2 L_L R_L g_m s^4 + C_2 C_L L_2 L_L s^4 + C_2 C_L L_L R_2 R_5 g_m s^3 + 2C_2 C_L L_L R_2 R_L g_m s^3 + C_2 C_L L_L R_2 s^3 + C_2 C_L L_L R_5 s^3 + 4C_2 C_L L_L R_L s^3 + 2C_2 L_2 L_L g_m}$$

10.467 INVALID-ORDER-467 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5,\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2 C_L L_2 L_L R_5 g_m s^4 + 2C_2 C_L L_2 L_L R_L g_m s^4 + C_2 C_L L_2 L_L s^4 + C_2 C_L L_2 R_5 R_L g_m s^3 + C_2 C_L L_2 R_L s^3 + C_2 C_L L_L R_2 R_5 g_m s^3 + 2C_2 C_L L_L R_2 R_L g_m s^3 + C_2 C_L L_L R_2 s^3 + C_2 C_L L_L}$$

10.468 INVALID-ORDER-468 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2 C_5 L_2 s^3 - C_2 C_5 R_2 s^2 + C_2 L_2 g_m s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m\right)}{2C_2 C_5 L_2 R_L g_m s^3 + C_2 C_5 L_2 s^3 + 2C_2 C_5 R_2 R_L g_m s^2 + C_2 C_5 R_2 s^2 + 4C_2 C_5 R_L s^2 + C_2 L_2 g_m s^2 + C_2 R_2 g_m s + C_2 s + 2C_5 R_L g_m s + C_5 s + g_m}$$

10.469 INVALID-ORDER-469 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2 C_5 L_2 s^3 - C_2 C_5 R_2 s^2 + C_2 L_2 g_m s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m}{s\left(C_2 C_5 C_L L_2 s^3 + C_2 C_5 C_L R_2 s^2 + 2C_2 C_5 L_2 g_m s^2 + 2C_2 C_5 R_2 g_m s + 4C_2 C_5 s + C_2 C_L L_2 g_m s^2 + C_2 C_L R_2 g_m s + C_2 C_L s + C_5 C_L s + 2C_5 g_m + C_L g_m\right)}$$

10.470 INVALID-ORDER-470 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(-C_2 C_5 L_2 s^3 - C_2 C_5 R_2 s^2 + C_2 L_2 g_m s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m\right)}{C_2 C_5 C_L L_2 R_L s^4 + C_2 C_5 C_L R_2 R_L s^3 + 2C_2 C_5 L_2 R_L g_m s^3 + C_2 C_5 L_2 s^3 + 2C_2 C_5 R_2 R_L g_m s^2 + C_2 C_5 R_2 s^2 + 4C_2 C_5 R_L s^2 + C_2 C_L L_2 R_L g_m s^3 + C_2 C_L R_2 R_L g_m s^2 + C_2 C_L R_L s^2 -}$$

10.471 INVALID-ORDER-471 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1)\left(-C_2 C_5 L_2 s^3 - C_2 C_5 R_2 s^2 + C_2 L_2 g_m s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m\right)}{s\left(2C_2 C_5 C_L L_2 R_L g_m s^3 + C_2 C_5 C_L L_2 s^3 + 2C_2 C_5 C_L R_2 R_L g_m s^2 + C_2 C_5 C_L R_2 s^2 + 4C_2 C_5 C_L R_L s^2 + 2C_2 C_5 L_2 g_m s^2 + 2C_2 C_5 R_2 g_m s + 4C_2 C_5 s + C_2 C_L L_2 g_m s^2 + C_2 C_L R_2 g_m s\right.}$$

10.472 INVALID-ORDER-472 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(-C_2 C_5 L_2 s^3 - C_2 C_5 R_2 s^2 + C_2 L_2 g_m s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m\right)}{s\left(2C_2 C_5 C_L L_2 L_L g_m s^4 + C_2 C_5 C_L L_2 s^3 + 2C_2 C_5 C_L L_L R_2 g_m s^3 + 4C_2 C_5 C_L L_L s^3 + C_2 C_5 C_L R_2 s^2 + 2C_2 C_5 L_2 g_m s^2 + 2C_2 C_5 R_2 g_m s + 4C_2 C_5 s + C_2 C_L L_2 g_m s^2 + C_2 C_L R_2 g_m s\right.}$$

10.473 INVALID-ORDER-473 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L s\left(-C_2 C_5 L_2 s^3 - C_2 C_5 R_2 s^2 + C_2 L_2 g_m s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m\right)}{C_2 C_5 C_L L_2 L_L s^5 + C_2 C_5 C_L L_L R_2 s^4 + 2C_2 C_5 L_2 L_L g_m s^4 + C_2 C_5 L_2 s^3 + 2C_2 C_5 L_L R_2 g_m s^3 + 4C_2 C_5 L_L s^3 + C_2 C_5 R_2 s^2 + C_2 C_L L_2 L_L g_m s^4 + C_2 C_L L_L R_2 g_m s^3 + C_2 C_L L_L s^3 +}$$

10.474 INVALID-ORDER-474 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(-C_2 C_5 L_2 s^3 - C_2 C_5 R_2 s^2 + C_2 L_2 g_m s^2 +\right.}{s\left(2C_2 C_5 C_L L_2 L_L g_m s^4 + 2C_2 C_5 C_L L_2 R_L g_m s^3 + C_2 C_5 C_L L_2 s^3 + 2C_2 C_5 C_L L_L R_2 g_m s^3 + 4C_2 C_5 C_L L_L s^3 + 2C_2 C_5 C_L R_2 R_L g_m s^2 + C_2 C_5 C_L R_2 s^2 + 4C_2 C_5 C_L R_L s^2 + 2C_2 C_5 L\right.}$$

10.475 INVALID-ORDER-475 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{L_L R_L s}{C_2 C_5 C_L L_2 L_L R_L s^5 + C_2 C_5 C_L L_L R_2 R_L s^4 + 2C_2 C_5 L_2 L_L R_L g_m s^4 + C_2 C_5 L_2 L_L s^4 + C_2 C_5 L_2 R_L s^3 + 2C_2 C_5 L_L R_2 R_L g_m s^3 + C_2 C_5 L_L R_2 s^3 + 4C_2 C_5 L_L R_L s^3 + C_2 C_5 R_2 R_L s^2}$$

10.476 INVALID-ORDER-476 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{\left(C_L L_L R_L s\right.}{2C_2C_5C_LL_2L_LR_Lg_ms^5 + C_2C_5C_LL_2L_Ls^5 + 2C_2C_5C_LL_LR_2R_Lg_ms^4 + C_2C_5C_LL_LR_2s^4 + 4C_2C_5C_LL_LR_Ls^4 + 2C_2C_5L_2L_Lg_ms^4 + 2C_2C_5L_2R_Lg_ms^3 + C_2C_5L_2s^3 + 2C_2C_5}$$

10.477 INVALID-ORDER-477 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2L_LR_Lg_ms^5 + C_2C_5C_LL_2L_Ls^5 + C_2C_5C_LL_2R_Ls^4 + 2C_2C_5C_LL_LR_2R_Lg_ms^4 + C_2C_5C_LL_LR_2s^4 + 4C_2C_5C_LL_LR_Ls^4 + C_2C_5C_LR_2R_Ls^3 + 2C_2C_5L_2R_Lg_ms^3 + C}$$

10.478 INVALID-ORDER-478 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2R_5s^3 - C_2C_5R_2R_5s^2 + C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2R_2R_5g_ms - C_2R_2s + C_2R_5s - C_5R_5s +\right.}{2C_2C_5L_2R_5R_Lg_ms^3 + C_2C_5L_2R_5s^3 + 2C_2C_5R_2R_5R_Lg_ms^2 + C_2C_5R_2R_5s^2 + 4C_2C_5R_5R_Ls^2 + C_2L_2R_5g_ms^2 + 2C_2L_2R_Lg_ms^2 + C_2L_2s^2 + C_2R_2R_5g_ms + 2C_2R_2R_Lg_ms +}$$

10.479 INVALID-ORDER-479 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2C_5L_2R_5s^3 - C_2C_5R_2R_5s^2 + C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2R_2R_5g_ms - C_2R_2s + C_2R_5s - C_5R_5}{C_2C_5C_LL_2R_5s^4 + C_2C_5C_LR_2R_5s^3 + 2C_2C_5L_2R_5g_ms^3 + 2C_2C_5R_2R_5g_ms^2 + 4C_2C_5R_5s^2 + C_2C_LL_2R_5g_ms^3 + C_2C_LL_2s^3 + C_2C_LR_2R_5g_ms^2 + C_2C_LR_2s^2 + C_2C_LR_5s^2 + 2}$$

10.480 INVALID-ORDER-480 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2R_\right.}{C_2C_5C_LL_2R_5R_Ls^4 + C_2C_5C_LR_2R_5R_Ls^3 + 2C_2C_5L_2R_5R_Lg_ms^3 + C_2C_5L_2R_5s^3 + 2C_2C_5R_2R_5R_Lg_ms^2 + C_2C_5R_2R_5s^2 + 4C_2C_5R_5R_Ls^2 + C_2C_LL_2R_5R_Lg_ms^3 + C_2C_LL_2R}$$

10.481 INVALID-ORDER-481 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{(C_L R_L s + 1)\left(C_2 C_5 L_2$$
$$2C_2C_5C_LL_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_5s^4 + 2C_2C_5C_LR_2R_5R_Lg_ms^3 + C_2C_5C_LR_2R_5s^3 + 4C_2C_5C_LR_5R_Ls^3 + 2C_2C_5L_2R_5g_ms^3 + 2C_2C_5R_2R_5g_ms^2 + 4C_2C_5R_5s^2 + C_2C$$

10.482 INVALID-ORDER-482 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 L_$$
$$2C_2C_5C_LL_2L_LR_5g_ms^5 + C_2C_5C_LL_2R_5s^4 + 2C_2C_5C_LL_LR_2R_5g_ms^4 + 4C_2C_5C_LL_LR_5s^4 + C_2C_5C_LR_2R_5s^3 + 2C_2C_5L_2R_5g_ms^3 + 2C_2C_5R_2R_5g_ms^2 + 4C_2C_5R_5s^2 + 2C_2C$$

10.483 INVALID-ORDER-483 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(-C_2 C_5 L_2$$
$$C_2C_5C_LL_2L_LR_5s^5 + C_2C_5C_LL_LR_2R_5s^4 + 2C_2C_5L_2L_LR_5g_ms^4 + C_2C_5L_2R_5s^3 + 2C_2C_5L_LR_2R_5g_ms^3 + 4C_2C_5L_LR_5s^3 + C_2C_5R_2R_5s^2 + C_2C_LL_2L_LR_5g_ms^4 + C_2C_LL_2L_L$$

10.484 INVALID-ORDER-484 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_LR_5g_ms^5 + 2C_2C_5C_LL_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_5s^4 + 2C_2C_5C_LL_LR_2R_5g_ms^4 + 4C_2C_5C_LL_LR_5s^4 + 2C_2C_5C_LR_2R_5R_Lg_ms^3 + C_2C_5C_LR_2R_5s^3 + 4C_2C_5$$

10.485 INVALID-ORDER-485 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_LR_5R_Ls^5 + C_2C_5C_LL_LR_2R_5R_Ls^4 + 2C_2C_5L_2L_LR_5R_Lg_ms^4 + C_2C_5L_2L_LR_5s^4 + C_2C_5L_2R_5R_Ls^3 + 2C_2C_5L_LR_2R_5R_Lg_ms^3 + C_2C_5L_LR_2R_5s^3 + 4C_2C_5L_LR_5$$

10.486 INVALID-ORDER-486 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_LR_5R_Lg_ms^5 + C_2C_5C_LL_2L_LR_5s^5 + 2C_2C_5C_LL_LR_2R_5R_Lg_ms^4 + C_2C_5C_LL_LR_2R_5s^4 + 4C_2C_5C_LL_LR_5R_Ls^4 + 2C_2C_5L_2L_LR_5g_ms^4 + 2C_2C_5L_2R_5R_Lg_ms^3 +$$

10.487 INVALID-ORDER-487 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_LR_5R_Lg_ms^5 + C_2C_5C_LL_2L_LR_5s^5 + C_2C_5C_LL_2R_5R_Ls^4 + 2C_2C_5C_LL_LR_2R_5R_Lg_ms^4 + C_2C_5C_LL_LR_2R_5s^4 + 4C_2C_5C_LL_LR_5R_Ls^4 + C_2C_5C_LR_2R_5R_Ls^3 +$$

10.488 INVALID-ORDER-488 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5R_2R_5g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_5s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s + C_5R_5g_ms - C_5s + g_m\right)}{C_2C_5L_2R_5g_ms^3 + 2C_2C_5L_2R_Lg_ms^3 + C_2C_5L_2s^3 + C_2C_5R_2R_5g_ms^2 + 2C_2C_5R_2R_Lg_ms^2 + C_2C_5R_2s^2 + C_2C_5R_5s^2 + 4C_2C_5R_Ls^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s + C_5R_5g$$

10.489 INVALID-ORDER-489 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5R_2R_5g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_5s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s + C_5R_5g_ms - C_5s +}{s\left(C_2C_5C_LL_2R_5g_ms^3 + C_2C_5C_LL_2s^3 + C_2C_5C_LR_2R_5g_ms^2 + C_2C_5C_LR_2s^2 + C_2C_5C_LR_5s^2 + 2C_2C_5L_2g_ms^2 + 2C_2C_5R_2g_ms + 4C_2C_5s + C_2C_LL_2g_ms^2 + C_2C_LR_2g_ms + C\right.}$$

10.490 INVALID-ORDER-490 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 +\right.}{C_2C_5C_LL_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_Ls^4 + C_2C_5C_LR_2R_5R_Lg_ms^3 + C_2C_5C_LR_2R_Ls^3 + C_2C_5C_LR_5R_Ls^3 + C_2C_5L_2R_5g_ms^3 + 2C_2C_5L_2R_Lg_ms^3 + C_2C_5L_2s^3 + C_2C_5R_2R_5$$

10.491 INVALID-ORDER-491 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1)\left(C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 R_2 R_5 g_m s^2 - C_2 C_5 R_2 s^2 + C_2 C_5 R_5 s^2 + C\right.}{s\left(C_2 C_5 C_L L_2 R_5 g_m s^3 + 2 C_2 C_5 C_L L_2 R_L g_m s^3 + C_2 C_5 C_L L_2 s^3 + C_2 C_5 C_L R_2 R_5 g_m s^2 + 2 C_2 C_5 C_L R_2 R_L g_m s^2 + C_2 C_5 C_L R_2 s^2 + C_2 C_5 C_L R_5 s^2 + 4 C_2 C_5 C_L R_L s^2 + 2 C_2 C_5 L_2 g_m\right.}$$

10.492 INVALID-ORDER-492 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 R_2 R_5 g_m s^2 - C_2 C_5 R_2 s^2 + C_2 C_5 R_5 s^2 + C\right.}{s\left(2 C_2 C_5 C_L L_2 L_L g_m s^4 + C_2 C_5 C_L L_2 R_5 g_m s^3 + C_2 C_5 C_L L_2 s^3 + 2 C_2 C_5 C_L L_L R_2 g_m s^3 + 4 C_2 C_5 C_L L_L s^3 + C_2 C_5 C_L R_2 R_5 g_m s^2 + C_2 C_5 C_L R_2 s^2 + C_2 C_5 C_L R_5 s^2 + 2 C_2 C_5 L_2 g_m s\right.}$$

10.493 INVALID-ORDER-493 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L s\left(C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 +\right.}{C_2 C_5 C_L L_2 L_L R_5 g_m s^5 + C_2 C_5 C_L L_2 L_L s^5 + C_2 C_5 C_L L_L R_2 R_5 g_m s^4 + C_2 C_5 C_L L_L R_2 s^4 + C_2 C_5 C_L L_L R_5 s^4 + 2 C_2 C_5 L_2 L_L g_m s^4 + C_2 C_5 L_2 R_5 g_m s^3 + C_2 C_5 L_2 s^3 + 2 C_2 C_5 L_L R_2\left.\right.}$$

10.494 INVALID-ORDER-494 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 +\right.}{s\left(2 C_2 C_5 C_L L_2 L_L g_m s^4 + C_2 C_5 C_L L_2 R_5 g_m s^3 + 2 C_2 C_5 C_L L_2 R_L g_m s^3 + C_2 C_5 C_L L_2 s^3 + 2 C_2 C_5 C_L L_L R_2 g_m s^3 + 4 C_2 C_5 C_L L_L s^3 + C_2 C_5 C_L R_2 R_5 g_m s^2 + 2 C_2 C_5 C_L R_2 R_L g_m s^2 +\right.}$$

10.495 INVALID-ORDER-495 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_2 L_L R_5 R_L g_m s^5 + C_2 C_5 C_L L_2 L_L R_L s^5 + C_2 C_5 C_L L_L R_2 R_5 R_L g_m s^4 + C_2 C_5 C_L L_L R_2 R_L s^4 + C_2 C_5 C_L L_L R_5 R_L s^4 + C_2 C_5 L_2 L_L R_5 g_m s^4 + 2 C_2 C_5 L_2 L_L R_L g_m s^4 + C_2 C$$

10.496 INVALID-ORDER-496 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_LR_5g_ms^5 + 2C_2C_5C_LL_2L_LR_Lg_ms^5 + C_2C_5C_LL_2L_Ls^5 + C_2C_5C_LL_LR_2R_5g_ms^4 + 2C_2C_5C_LL_LR_2R_Lg_ms^4 + C_2C_5C_LL_LR_2s^4 + C_2C_5C_LL_LR_5s^4 + 4C_2C_5C_LL$$

10.497 INVALID-ORDER-497 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_LR_5g_ms^5 + 2C_2C_5C_LL_2L_LR_Lg_ms^5 + C_2C_5C_LL_2L_Ls^5 + C_2C_5C_LL_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_Ls^4 + C_2C_5C_LL_LR_2R_5g_ms^4 + 2C_2C_5C_LL_LR_2R_Lg_ms^4 + C_2C_5$$

10.498 INVALID-ORDER-498 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2L_5g_ms^4 - C_2C_5L_2s^3 + C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 - C_2C_5R_2s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^2 - C_5s + g_m\right)}{C_2C_5L_2L_5g_ms^4 + 2C_2C_5L_2R_Lg_ms^3 + C_2C_5L_2s^3 + C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 + 2C_2C_5R_2R_Lg_ms^2 + C_2C_5R_2s^2 + 4C_2C_5R_Ls^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s + C_5L_5g_m$$

10.499 INVALID-ORDER-499 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2L_5g_ms^4 - C_2C_5L_2s^3 + C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 - C_2C_5R_2s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^2 - C_5s}{s\left(C_2C_5C_LL_2L_5g_ms^4 + C_2C_5C_LL_2s^3 + C_2C_5C_LL_5R_2g_ms^3 + C_2C_5C_LL_5s^3 + C_2C_5C_LR_2s^2 + 2C_2C_5L_2g_ms^2 + 2C_2C_5R_2g_ms + 4C_2C_5s + C_2C_LL_2g_ms^2 + C_2C_LR_2g_ms + C$$

10.500 INVALID-ORDER-500 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2L_5g_ms^4 - C_2C_5L_2s^3 +\right.}{C_2C_5C_LL_2L_5R_Lg_ms^5 + C_2C_5C_LL_2R_Ls^4 + C_2C_5C_LL_5R_2R_Lg_ms^4 + C_2C_5C_LL_5R_Ls^4 + C_2C_5C_LR_2R_Ls^3 + C_2C_5L_2L_5g_ms^4 + 2C_2C_5L_2R_Lg_ms^3 + C_2C_5L_2s^3 + C_2C_5L_5R_2g$$

10.501 INVALID-ORDER-501 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1)\left(C_2 C_5 L_2 L_5 g_m s^4 - C_2 C_5 L_2 s^3 + C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 - C_2 C_5 R_2 s^2 + C_2\right.}{s\left(C_2 C_5 C_L L_2 L_5 g_m s^4 + 2 C_2 C_5 C_L L_2 R_L g_m s^3 + C_2 C_5 C_L L_2 s^3 + C_2 C_5 C_L L_5 R_2 g_m s^3 + C_2 C_5 C_L L_5 s^3 + 2 C_2 C_5 C_L R_2 R_L g_m s^2 + C_2 C_5 C_L R_2 s^2 + 4 C_2 C_5 C_L R_L s^2 + 2 C_2 C_5 L_2 g_m s\right.}$$

10.502 INVALID-ORDER-502 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 L_2 L_5 g_m s^4 - C_2 C_5 L_2 s^3 + C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 - C_2 C_5 R_2 s^2 + C\right.}{s\left(C_2 C_5 C_L L_2 L_5 g_m s^4 + 2 C_2 C_5 C_L L_2 L_L g_m s^4 + C_2 C_5 C_L L_2 s^3 + C_2 C_5 C_L L_5 R_2 g_m s^3 + C_2 C_5 C_L L_5 s^3 + 2 C_2 C_5 C_L L_L R_2 g_m s^3 + 4 C_2 C_5 C_L L_L s^3 + C_2 C_5 C_L R_2 s^2 + 2 C_2 C_5 L_2 g_m s\right.}$$

10.503 INVALID-ORDER-503 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L s\left(C_2 C_5 L_2 L_5 g_m s^4 - C_2 C_5 L_2 s^3 +\right.}{C_2 C_5 C_L L_2 L_5 L_L g_m s^6 + C_2 C_5 C_L L_2 L_L s^5 + C_2 C_5 C_L L_5 L_L R_2 g_m s^5 + C_2 C_5 C_L L_5 L_L s^5 + C_2 C_5 C_L L_L R_2 s^4 + C_2 C_5 L_2 L_5 g_m s^4 + 2 C_2 C_5 L_2 L_L g_m s^4 + C_2 C_5 L_2 s^3 + C_2 C_5 L_5 R_2 g_m}$$

10.504 INVALID-ORDER-504 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_2 C_5 L_2 L_5 g_m s^4 - C_2 C_5 L_2 s^3 + C\right.}{s\left(C_2 C_5 C_L L_2 L_5 g_m s^4 + 2 C_2 C_5 C_L L_2 L_L g_m s^4 + 2 C_2 C_5 C_L L_2 R_L g_m s^3 + C_2 C_5 C_L L_2 s^3 + C_2 C_5 C_L L_5 R_2 g_m s^3 + C_2 C_5 C_L L_5 s^3 + 2 C_2 C_5 C_L L_L R_2 g_m s^3 + 4 C_2 C_5 C_L L_L s^3 + 2 C_2 C_5\right.}$$

10.505 INVALID-ORDER-505 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_2 L_5 L_L R_L g_m s^6 + C_2 C_5 C_L L_2 L_L R_L s^5 + C_2 C_5 C_L L_5 L_L R_2 R_L g_m s^5 + C_2 C_5 C_L L_5 L_L R_L s^5 + C_2 C_5 C_L L_L R_2 R_L s^4 + C_2 C_5 L_2 L_5 L_L g_m s^5 + C_2 C_5 L_2 L_5 R_L g_m s^4 + 2 C_2 C_5$$

10.506 INVALID-ORDER-506 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_Lg_ms^6 + 2C_2C_5C_LL_2L_LR_Lg_ms^5 + C_2C_5C_LL_2L_Ls^5 + C_2C_5C_LL_5L_LR_2g_ms^5 + C_2C_5C_LL_5L_Ls^5 + 2C_2C_5C_LL_LR_2R_Lg_ms^4 + C_2C_5C_LL_LR_2s^4 + 4C_2C_5C_LL_L$$

10.507 INVALID-ORDER-507 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_Lg_ms^6 + C_2C_5C_LL_2L_5R_Lg_ms^5 + 2C_2C_5C_LL_2L_LR_Lg_ms^5 + C_2C_5C_LL_2L_Ls^5 + C_2C_5C_LL_2R_Ls^4 + C_2C_5C_LL_5L_LR_2g_ms^5 + C_2C_5C_LL_5L_Ls^5 + C_2C_5C_LL_5R_2$$

10.508 INVALID-ORDER-508 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2L_5s^4 - C_2C_5L_5R_2s^3 + C_2L_2L_5g_ms^3 - C_2L_2s^2 + C_2L_5R_2g_ms^2 + C_2L_5s^2 - C_2R_2s - C_5L_5s^2\right.}{2C_2C_5L_2L_5R_Lg_ms^4 + C_2C_5L_2L_5s^4 + 2C_2C_5L_5R_2R_Lg_ms^3 + C_2C_5L_5R_2s^3 + 4C_2C_5L_5R_Ls^3 + C_2L_2L_5g_ms^3 + 2C_2L_2R_Lg_ms^2 + C_2L_2s^2 + C_2L_5R_2g_ms^2 + C_2L_5s^2 + 2C_2R_2$$

10.509 INVALID-ORDER-509 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2C_5L_2L_5s^4 - C_2C_5L_5R_2s^3 + C_2L_2L_5g_ms^3 - C_2L_2s^2 + C_2L_5R_2g_ms^2 + C_2L_5s^2 - C_2R_2s - C_5L_5}{C_2C_5C_LL_2L_5s^5 + C_2C_5C_LL_5R_2s^4 + 2C_2C_5L_2L_5g_ms^4 + 2C_2C_5L_5R_2g_ms^3 + 4C_2C_5L_5s^3 + C_2C_LL_2L_5g_ms^4 + C_2C_LL_2s^3 + C_2C_LL_5R_2g_ms^3 + C_2C_LL_5s^3 + C_2C_LR_2s^2 + 2C$$

10.510 INVALID-ORDER-510 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2L_5\right.}{C_2C_5C_LL_2L_5R_Ls^5 + C_2C_5C_LL_5R_2R_Ls^4 + 2C_2C_5L_2L_5R_Lg_ms^4 + C_2C_5L_2L_5s^4 + 2C_2C_5L_5R_2R_Lg_ms^3 + C_2C_5L_5R_2s^3 + 4C_2C_5L_5R_Ls^3 + C_2C_LL_2L_5R_Lg_ms^4 + C_2C_LL_2R_L$$

10.511 INVALID-ORDER-511 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{(C_L R_L s + 1)\left(C_2 C_5 L_2 L$$
$$2C_2C_5C_LL_2L_5R_Lg_ms^5 + C_2C_5C_LL_2L_5s^5 + 2C_2C_5C_LL_5R_2R_Lg_ms^4 + C_2C_5C_LL_5R_2s^4 + 4C_2C_5C_LL_5R_Ls^4 + 2C_2C_5L_2L_5g_ms^4 + 2C_2C_5L_5R_2g_ms^3 + 4C_2C_5L_5s^3 + C_2C_L$$

10.512 INVALID-ORDER-512 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 L_2 L$$
$$2C_2C_5C_LL_2L_5L_Lg_ms^6 + C_2C_5C_LL_2L_5s^5 + 2C_2C_5C_LL_5L_LR_2g_ms^5 + 4C_2C_5C_LL_5L_Ls^5 + C_2C_5C_LL_5R_2s^4 + 2C_2C_5L_2L_5g_ms^4 + 2C_2C_5L_5R_2g_ms^3 + 4C_2C_5L_5s^3 + C_2C_LL$$

10.513 INVALID-ORDER-513 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(-C_2 C_5 L_2 L\right.}{C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_5L_LR_2s^5 + 2C_2C_5L_2L_5L_Lg_ms^5 + C_2C_5L_2L_5s^4 + 2C_2C_5L_5L_LR_2g_ms^4 + 4C_2C_5L_5L_Ls^4 + C_2C_5L_5R_2s^3 + C_2C_LL_2L_5L_Lg_ms^5 + C_2C_LL_2L_Ls$$

10.514 INVALID-ORDER-514 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5L_Lg_ms^6 + 2C_2C_5C_LL_2L_5R_Lg_ms^5 + C_2C_5C_LL_2L_5s^5 + 2C_2C_5C_LL_5L_LR_2g_ms^5 + 4C_2C_5C_LL_5L_Ls^5 + 2C_2C_5C_LL_5R_2R_Lg_ms^4 + C_2C_5C_LL_5R_2s^4 + 4C_2C_5C$$

10.515 INVALID-ORDER-515 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_Ls^6 + C_2C_5C_LL_5L_LR_2R_Ls^5 + 2C_2C_5L_2L_5L_LR_Lg_ms^5 + C_2C_5L_2L_5L_Ls^5 + C_2C_5L_2L_5R_Ls^4 + 2C_2C_5L_5L_LR_2R_Lg_ms^4 + C_2C_5L_5L_LR_2s^4 + 4C_2C_5L_5L_LR$$

10.516 INVALID-ORDER-516 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = -\frac{2C_2C_5C_LL_2L_5L_LR_Lg_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + 2C_2C_5C_LL_5L_LR_2R_Lg_ms^5 + C_2C_5C_LL_5L_LR_2s^5 + 4C_2C_5C_LL_5L_LR_Ls^5 + 2C_2C_5L_2L_5L_Lg_ms^5 + 2C_2C_5L_2L_5R_Lg_ms^4 +}{}$$

10.517 INVALID-ORDER-517 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = -\frac{2C_2C_5C_LL_2L_5L_LR_Lg_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_Ls^5 + 2C_2C_5C_LL_5L_LR_2R_Lg_ms^5 + C_2C_5C_LL_5L_LR_2s^5 + 4C_2C_5C_LL_5L_LR_Ls^5 + C_2C_5C_LL_5R_2R_Ls^4 + 2}{}$$

10.518 INVALID-ORDER-518 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2L_5g_ms^4 + C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 + C_2C_5R_2R_5g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_5s^2 + C_2L_2g_m\right.}{C_2C_5L_2L_5g_ms^4 + C_2C_5L_2R_5g_ms^3 + 2C_2C_5L_2R_Lg_ms^3 + C_2C_5L_2s^3 + C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 + C_2C_5R_2R_5g_ms^2 + 2C_2C_5R_2R_Lg_ms^2 + C_2C_5R_2s^2 + C_2C_5R_5s^2 + 4C_2}$$

10.519 INVALID-ORDER-519 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2L_5g_ms^4 + C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 + C_2C_5R_2R_5g_ms^2 - C_2C_5R_2s^2 + C_2C_5L}{s\left(C_2C_5C_LL_2L_5g_ms^4 + C_2C_5C_LL_2R_5g_ms^3 + C_2C_5C_LL_2s^3 + C_2C_5C_LL_5R_2g_ms^3 + C_2C_5C_LL_5s^3 + C_2C_5C_LR_2R_5g_ms^2 + C_2C_5C_LR_2s^2 + C_2C_5C_LR_5s^2 + 2C_2C_5L_2g_ms^2 +\right.}$$

10.520 INVALID-ORDER-520 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5R_Lg_ms^5 + C_2C_5C_LL_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_Ls^4 + C_2C_5C_LL_5R_2R_Lg_ms^4 + C_2C_5C_LL_5R_Ls^4 + C_2C_5C_LR_2R_5R_Lg_ms^3 + C_2C_5C_LR_2R_Ls^3 + C_2C_5C_LR_5R_L}$$

10.521 INVALID-ORDER-521 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1)\left(C_2 C_5 L_2 L_5 g_m s^4 + C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 L_5 R_2 g_m s^3 + C_2 C\right.}{s\left(C_2 C_5 C_L L_2 L_5 g_m s^4 + C_2 C_5 C_L L_2 R_5 g_m s^3 + 2 C_2 C_5 C_L L_2 R_L g_m s^3 + C_2 C_5 C_L L_2 s^3 + C_2 C_5 C_L L_5 R_2 g_m s^3 + C_2 C_5 C_L L_5 s^3 + C_2 C_5 C_L R_2 R_5 g_m s^2 + 2 C_2 C_5 C_L R_2 R_L g_m s^2 + C_2 C\right.}$$

10.522 INVALID-ORDER-522 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 L_2 L_5 g_m s^4 + C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 L_5 R_2 g_m s^3 + C_2 C\right.}{s\left(C_2 C_5 C_L L_2 L_5 g_m s^4 + 2 C_2 C_5 C_L L_2 L_L g_m s^4 + C_2 C_5 C_L L_2 R_5 g_m s^3 + C_2 C_5 C_L L_2 s^3 + C_2 C_5 C_L L_5 R_2 g_m s^3 + C_2 C_5 C_L L_5 s^3 + 2 C_2 C_5 C_L L_L R_2 g_m s^3 + 4 C_2 C_5 C_L L_L s^3 + C_2 C_5 C_L\right.}$$

10.523 INVALID-ORDER-523 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_2 L_5 L_L g_m s^6 + C_2 C_5 C_L L_2 L_L R_5 g_m s^5 + C_2 C_5 C_L L_2 L_L s^5 + C_2 C_5 C_L L_5 L_L R_2 g_m s^5 + C_2 C_5 C_L L_5 L_L s^5 + C_2 C_5 C_L L_L R_2 R_5 g_m s^4 + C_2 C_5 C_L L_L R_2 s^4 + C_2 C_5 C_L L_L R_5 s}$$

10.524 INVALID-ORDER-524 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_2 C_5 L_2 L_5 g_m s^4 + C_2 C_5 L_2\right.}{s\left(C_2 C_5 C_L L_2 L_5 g_m s^4 + 2 C_2 C_5 C_L L_2 L_L g_m s^4 + C_2 C_5 C_L L_2 R_5 g_m s^3 + 2 C_2 C_5 C_L L_2 R_L g_m s^3 + C_2 C_5 C_L L_2 s^3 + C_2 C_5 C_L L_5 R_2 g_m s^3 + C_2 C_5 C_L L_5 s^3 + 2 C_2 C_5 C_L L_L R_2 g_m s^3 + 4 C\right.}$$

10.525 INVALID-ORDER-525 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_2 L_5 L_L R_L g_m s^6 + C_2 C_5 C_L L_2 L_L R_5 R_L g_m s^5 + C_2 C_5 C_L L_2 L_L R_L s^5 + C_2 C_5 C_L L_5 L_L R_2 R_L g_m s^5 + C_2 C_5 C_L L_5 L_L R_L s^5 + C_2 C_5 C_L L_L R_2 R_5 R_L g_m s^4 + C_2 C_5 C_L L_L R_2 R$$

10.526 INVALID-ORDER-526 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_Lg_ms^6 + C_2C_5C_LL_2L_Lg_ms^5 + 2C_2C_5C_LL_2L_LR_5g_ms^5 + C_2C_5C_LL_2L_Ls^5 + C_2C_5C_LL_5L_LR_2g_ms^5 + C_2C_5C_LL_5L_Ls^5 + C_2C_5C_LL_LR_2R_5g_ms^4 + 2C_2C_5C$$

10.527 INVALID-ORDER-527 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_Lg_ms^6 + C_2C_5C_LL_2L_5R_Lg_ms^5 + C_2C_5C_LL_2L_LR_5g_ms^5 + 2C_2C_5C_LL_2L_LR_Lg_ms^5 + C_2C_5C_LL_2L_Ls^5 + C_2C_5C_LL_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_Ls^4 + C_2C_5C_L$$

10.528 INVALID-ORDER-528 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2L_5R_5s^4 - C_2C_5L_5R_2R_5s^3 + C_2L_2L_5R_5g_ms^3 -\right.}{2C_2C_5L_2L_5R_5R_Lg_ms^4 + C_2C_5L_2L_5R_5s^4 + 2C_2C_5L_5R_2R_5R_Lg_ms^3 + C_2C_5L_5R_2R_5s^3 + 4C_2C_5L_5R_5R_Ls^3 + C_2L_2L_5R_5g_ms^3 + 2C_2L_2L_5R_Lg_ms^3 + C_2L_2L_5s^3 + 2C_2L_2R_5R$$

10.529 INVALID-ORDER-529 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2C_5L_2L_5R_5s^4 - C_2C_5L_5R_2R_5s^3 + C_2L_2L_5R_5g_ms^3 +}{C_2C_5C_LL_2L_5R_5s^5 + C_2C_5C_LL_5R_2R_5s^4 + 2C_2C_5L_2L_5R_5g_ms^4 + 2C_2C_5L_5R_2R_5g_ms^3 + 4C_2C_5L_5R_5s^3 + C_2C_LL_2L_5R_5g_ms^4 + C_2C_LL_2L_5s^4 + C_2C_LL_2R_5s^3 + C_2C_LL_5R_2R$$

10.530 INVALID-ORDER-530 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5R_5R_Ls^5 + C_2C_5C_LL_5R_2R_5R_Ls^4 + 2C_2C_5L_2L_5R_5R_Lg_ms^4 + C_2C_5L_2L_5R_5s^4 + 2C_2C_5L_5R_2R_5R_Lg_ms^3 + C_2C_5L_5R_2R_5s^3 + 4C_2C_5L_5R_5R_Ls^3 + C_2C_LL_2L_5R_5$$

10.531 INVALID-ORDER-531 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5R_5R_Lg_ms^5 + C_2C_5C_LL_2L_5R_5s^5 + 2C_2C_5C_LL_5R_2R_5R_Lg_ms^4 + C_2C_5C_LL_5R_2R_5s^4 + 4C_2C_5C_LL_5R_5R_Ls^4 + 2C_2C_5L_2L_5R_5g_ms^4 + 2C_2C_5L_5R_2R_5g_ms^3 +$$

10.532 INVALID-ORDER-532 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5L_LR_5g_ms^6 + C_2C_5C_LL_2L_5R_5s^5 + 2C_2C_5C_LL_5L_LR_2R_5g_ms^5 + 4C_2C_5C_LL_5L_LR_5s^5 + C_2C_5C_LL_5R_2R_5s^4 + 2C_2C_5L_2L_5R_5g_ms^4 + 2C_2C_5L_5R_2R_5g_ms^3 + 4$$

10.533 INVALID-ORDER-533 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_5s^6 + C_2C_5C_LL_5L_LR_2R_5s^5 + 2C_2C_5L_2L_5L_LR_5g_ms^5 + C_2C_5L_2L_5R_5s^4 + 2C_2C_5L_5L_LR_2R_5g_ms^4 + 4C_2C_5L_5L_LR_5s^4 + C_2C_5L_5R_2R_5s^3 + C_2C_LL_2L_5L_L$$

10.534 INVALID-ORDER-534 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5L_LR_5g_ms^6 + 2C_2C_5C_LL_2L_5R_5R_Lg_ms^5 + C_2C_5C_LL_2L_5R_5s^5 + 2C_2C_5C_LL_5L_LR_2R_5g_ms^5 + 4C_2C_5C_LL_5L_LR_5s^5 + 2C_2C_5C_LL_5R_2R_5R_Lg_ms^4 + C_2C_5C_LL_$$

10.535 INVALID-ORDER-535 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_5R_Ls^6 + C_2C_5C_LL_5L_LR_2R_5R_Ls^5 + 2C_2C_5L_2L_5L_LR_5R_Lg_ms^5 + C_2C_5L_2L_5L_LR_5s^5 + C_2C_5L_2L_5R_5R_Ls^4 + 2C_2C_5L_5L_LR_2R_5R_Lg_ms^4 + C_2C_5L_5L_LR_2R$$

10.536 INVALID-ORDER-536 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5L_LR_5R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_5s^6 + 2C_2C_5C_LL_5L_LR_2R_5R_Lg_ms^5 + C_2C_5C_LL_5L_LR_2R_5s^5 + 4C_2C_5C_LL_5L_LR_5R_Ls^5 + 2C_2C_5L_2L_5L_LR_5g_ms^5 + 2C_2C$$

10.537 INVALID-ORDER-537 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5L_LR_5R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_5s^6 + C_2C_5C_LL_2L_5R_5R_Ls^5 + 2C_2C_5C_LL_5L_LR_2R_5R_Lg_ms^5 + C_2C_5C_LL_5L_LR_2R_5s^5 + 4C_2C_5C_LL_5L_LR_5R_Ls^5 + C_2C_5C$$

10.538 INVALID-ORDER-538 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5,\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2L_5R_5g_ms^4 - C_2C_5L_2L_5s^4 + C_2C_5L_5R_2R_5g_ms^3 - C_2C_5L_5R_2s^3 + C_2C_5L_5R_5s^3 + C_2L_2L_5g_ms\right.}{C_2C_5L_2L_5R_5g_ms^4 + 2C_2C_5L_2L_5R_Lg_ms^4 + C_2C_5L_2L_5s^4 + C_2C_5L_5R_2R_5g_ms^3 + 2C_2C_5L_5R_2R_Lg_ms^3 + C_2C_5L_5R_2s^3 + C_2C_5L_5R_5s^3 + 4C_2C_5L_5R_Ls^3 + C_2L_2L_5g_ms^3 + C_2$$

10.539 INVALID-ORDER-539 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5,\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2L_5R_5g_ms^4 - C_2C_5L_2L_5s^4 + C_2C_5L_5R_2R_5g_ms^3 - C_2C_5L_5R_2s^3 + C_2C_5L_5R_5s}{C_2C_5C_LL_2L_5R_5g_ms^5 + C_2C_5C_LL_2L_5s^5 + C_2C_5C_LL_5R_2R_5g_ms^4 + C_2C_5C_LL_5R_2s^4 + C_2C_5C_LL_5R_5s^4 + 2C_2C_5L_2L_5g_ms^4 + 2C_2C_5L_5R_2g_ms^3 + 4C_2C_5L_5s^3 + C_2C_LL_2L_5g$$

10.540 INVALID-ORDER-540 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5,\ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5R_5R_Lg_ms^5 + C_2C_5C_LL_2L_5R_Ls^5 + C_2C_5C_LL_5R_2R_5R_Lg_ms^4 + C_2C_5C_LL_5R_2R_Ls^4 + C_2C_5C_LL_5R_5R_Ls^4 + C_2C_5L_2L_5R_5g_ms^4 + 2C_2C_5L_2L_5R_Lg_ms^4 + C_2C_5L$$

10.541 INVALID-ORDER-541 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L R_L s + 1}{C_2C_5C_LL_2L_5R_5g_ms^5 + 2C_2C_5C_LL_2L_5R_Lg_ms^5 + C_2C_5C_LL_2L_5s^5 + C_2C_5C_LL_5R_2R_5g_ms^4 + 2C_2C_5C_LL_5R_2R_Lg_ms^4 + C_2C_5C_LL_5R_2s^4 + C_2C_5C_LL_5R_5s^4 + 4C_2C_5C_LL_5R}$$

10.542 INVALID-ORDER-542 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_L L_L s^2 + 1}{2C_2C_5C_LL_2L_5L_Lg_ms^6 + C_2C_5C_LL_2L_5R_5g_ms^5 + C_2C_5C_LL_2L_5s^5 + 2C_2C_5C_LL_5L_LR_2g_ms^5 + 4C_2C_5C_LL_5L_Ls^5 + C_2C_5C_LL_5R_2R_5g_ms^4 + C_2C_5C_LL_5R_2s^4 + C_2C_5C_LL_5R}$$

10.543 INVALID-ORDER-543 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_5g_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_5L_LR_2R_5g_ms^5 + C_2C_5C_LL_5L_LR_2s^5 + C_2C_5C_LL_5L_LR_5s^5 + 2C_2C_5L_2L_5L_Lg_ms^5 + C_2C_5L_2L_5R_5g_ms^4 + C_2C_5L}$$

10.544 INVALID-ORDER-544 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2L_5L_Lg_ms^6 + C_2C_5C_LL_2L_5R_5g_ms^5 + 2C_2C_5C_LL_2L_5R_Lg_ms^5 + C_2C_5C_LL_2L_5s^5 + 2C_2C_5C_LL_5L_LR_2g_ms^5 + 4C_2C_5C_LL_5L_Ls^5 + C_2C_5C_LL_5R_2R_5g_ms^4 + 2C_2C_5}$$

10.545 INVALID-ORDER-545 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_5R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_Ls^6 + C_2C_5C_LL_5L_LR_2R_5R_Lg_ms^5 + C_2C_5C_LL_5L_LR_2R_Ls^5 + C_2C_5C_LL_5L_LR_5R_Ls^5 + C_2C_5L_2L_5L_LR_5g_ms^5 + 2C_2C_5L_2L}$$

10.546 INVALID-ORDER-546 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_5g_ms^6 + 2C_2C_5C_LL_2L_5L_LR_Lg_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_5L_LR_2R_5g_ms^5 + 2C_2C_5C_LL_5L_LR_2R_Lg_ms^5 + C_2C_5C_LL_5L_LR_2s^5 + C_2C_5C_LL_5L_L$$

10.547 INVALID-ORDER-547 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_5g_ms^6 + 2C_2C_5C_LL_2L_5L_LR_Lg_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_5R_Lg_ms^5 + C_2C_5C_LL_2L_5R_Ls^5 + C_2C_5C_LL_5L_LR_2R_5g_ms^5 + 2C_2C_5C_LL_5L_LR$$

10.548 INVALID-ORDER-548 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2L_5R_5g_ms^4 - C_2C_5L_2L_5s^4 - C_2C_5L_2R_5s^3 + C_2C_5L_5L\right.}{C_2C_5L_2L_5R_5g_ms^4 + 2C_2C_5L_2L_5R_Lg_ms^4 + C_2C_5L_2L_5s^4 + 2C_2C_5L_2R_5R_Lg_ms^3 + C_2C_5L_2R_5s^3 + C_2C_5L_5R_2R_5g_ms^3 + 2C_2C_5L_5R_2R_Lg_ms^3 + C_2C_5L_5R_2s^3 + C_2C_5L_5R_5s^3}$$

10.549 INVALID-ORDER-549 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2L_5R_5g_ms^4 - C_2C_5L_2L_5s^4 - C_2C_5L_2R_5s^3 + C}{C_2C_5C_LL_2L_5R_5g_ms^5 + C_2C_5C_LL_2L_5s^5 + C_2C_5C_LL_2R_5s^4 + C_2C_5C_LL_5R_2R_5g_ms^4 + C_2C_5C_LL_5R_2s^4 + C_2C_5C_LL_5R_5s^4 + C_2C_5C_LR_2R_5s^3 + 2C_2C_5L_2L_5g_ms^4 + 2C_2C_5L_5$$

10.550 INVALID-ORDER-550 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5R_5R_Lg_ms^5 + C_2C_5C_LL_2L_5R_Ls^5 + C_2C_5C_LL_2R_5R_Ls^4 + C_2C_5C_LL_5R_2R_5R_Lg_ms^4 + C_2C_5C_LL_5R_2R_Ls^4 + C_2C_5C_LL_5R_5R_Ls^4 + C_2C_5C_LR_2R_5R_Ls^3 + C_2C_5$$

10.551 INVALID-ORDER-551 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{C_2C_5C_LL_2L_5R_5g_ms^5 + 2C_2C_5C_LL_2L_5R_Lg_ms^5 + C_2C_5C_LL_2L_5s^5 + 2C_2C_5C_LL_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_5s^4 + C_2C_5C_LL_5R_2R_5g_ms^4 + 2C_2C_5C_LL_5R_2R_Lg_ms^4 + C_2C_5$$

10.552 INVALID-ORDER-552 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{2C_2C_5C_LL_2L_5L_Lg_ms^6 + C_2C_5C_LL_2L_5R_5g_ms^5 + C_2C_5C_LL_2L_5s^5 + 2C_2C_5C_LL_2L_LR_5g_ms^5 + C_2C_5C_LL_2R_5s^4 + 2C_2C_5C_LL_5L_LR_2g_ms^5 + 4C_2C_5C_LL_5L_Ls^5 + C_2C_5C_LL$$

10.553 INVALID-ORDER-553 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_2C_5C_LL_2L_5L_LR_5g_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_LR_5s^5 + C_2C_5C_LL_5L_LR_2R_5g_ms^5 + C_2C_5C_LL_5L_LR_2s^5 + C_2C_5C_LL_5L_LR_5s^5 + C_2C_5C_LL_LR_2R_5s^4 + 2C_2C_5$$

10.554 INVALID-ORDER-554 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{2C_2C_5C_LL_2L_5L_Lg_ms^6 + C_2C_5C_LL_2L_5R_5g_ms^5 + 2C_2C_5C_LL_2L_5R_Lg_ms^5 + C_2C_5C_LL_2L_5s^5 + 2C_2C_5C_LL_2L_LR_5g_ms^5 + 2C_2C_5C_LL_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_5s^4 + 2C_2$$

10.555 INVALID-ORDER-555 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{C_2C_5C_LL_2L_5L_LR_5R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_Ls^6 + C_2C_5C_LL_2L_LR_5R_Ls^5 + C_2C_5C_LL_5L_LR_2R_5R_Lg_ms^5 + C_2C_5C_LL_5L_LR_2R_Ls^5 + C_2C_5C_LL_5L_LR_5R_Ls^5 + C_2C_5C_LL$$

10.556 INVALID-ORDER-556 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = -\frac{}{C_2C_5C_LL_2L_5L_LR_5g_ms^6 + 2C_2C_5C_LL_2L_5L_LR_Lg_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + 2C_2C_5C_LL_2L_LR_5R_Lg_ms^5 + C_2C_5C_LL_2L_LR_5s^5 + C_2C_5C_LL_5L_LR_2R_5g_ms^5 + 2C_2C_5C_LL_5L$$

10.557 INVALID-ORDER-557 $Z(s) = \left(\infty,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s + \frac{1}{C_5 s}\right)}{L_5 s + R_5 + \frac{1}{C_5 s}},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = -\frac{}{C_2C_5C_LL_2L_5L_LR_5g_ms^6 + 2C_2C_5C_LL_2L_5L_LR_Lg_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_5R_Lg_ms^5 + C_2C_5C_LL_2L_5R_Ls^5 + 2C_2C_5C_LL_2L_LR_5R_Lg_ms^5 + C_2C_5C_LL_2L_L$$

10.558 INVALID-ORDER-558 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2,\ \infty,\ \infty,\ R_5,\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2L_2R_2R_5g_ms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + L_2R_5g_ms - L_2s + R_2R_5g_m - R_2 + R_5}{C_2C_LL_2R_2R_5g_ms^3 + C_2C_LL_2R_2s^3 + C_2C_LL_2R_5s^3 + 2C_2L_2R_2g_ms^2 + 4C_2L_2s^2 + C_LL_2R_5g_ms^2 + C_LL_2s^2 + C_LR_2R_5g_ms + C_LR_2s + C_LR_5s + 2L_2g_ms + 2R_2g_m + 4}$$

10.559 INVALID-ORDER-559 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2,\ \infty,\ \infty,\ R_5,\ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{R_L\left(C_2L_2R_2R_5g_ms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + L_2R_5g_ms - L_2s + R\right.}{C_2C_LL_2R_2R_5R_Lg_ms^3 + C_2C_LL_2R_2R_Ls^3 + C_2C_LL_2R_5R_Ls^3 + C_2L_2R_2R_5g_ms^2 + 2C_2L_2R_2R_Lg_ms^2 + C_2L_2R_2s^2 + C_2L_2R_5s^2 + 4C_2L_2R_Ls^2 + C_LL_2R_5R_Lg_ms^2 + C_LL_2R_L$$

10.560 INVALID-ORDER-560 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2,\ \infty,\ \infty,\ R_5,\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_LR_Ls + 1)\left(C_2L_2R_2R_5g_ms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + L_2R_5g_ms - L_2s + R_2R_5g_m - R_2 +\right.}{C_2C_LL_2R_2R_5g_ms^3 + 2C_2C_LL_2R_2R_Lg_ms^3 + C_2C_LL_2R_2s^3 + C_2C_LL_2R_5s^3 + 4C_2C_LL_2R_Ls^3 + 2C_2L_2R_2g_ms^2 + 4C_2L_2s^2 + C_LL_2R_5g_ms^2 + 2C_LL_2R_Lg_ms^2 + C_LL_2s^2 + C_L$$

10.561 INVALID-ORDER-561 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ R_5,\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_2 L_2 R_2 R_5 g_m s^2 - C_2 L_2 R_2 s^2 + C_2 L_2 R_5 s^2 + L_2 R_5 g_m s - L_2 s + R_2 R_5 g_m - R_2}{2C_2 C_L L_2 L_L R_2 g_m s^4 + 4C_2 C_L L_2 L_L s^4 + C_2 C_L L_2 R_2 R_5 g_m s^3 + C_2 C_L L_2 R_2 s^3 + C_2 C_L L_2 R_5 s^3 + 2C_2 L_2 R_2 g_m s^2 + 4C_2 L_2 s^2 + 2C_L L_2 L_L g_m s^3 + C_L L_2 R_5 g_m s^2 + C_L L_2 s^2 + 2C}$$

10.562 INVALID-ORDER-562 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ R_5,\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(C_2 L_2 R_2 R_5 g_m s^2 - C_2 L_2 R_2 s^2 + C_2 L_2 R_5 s^2 + L_2 R_5 g_m s - L_2 s -}{C_2 C_L L_2 L_L R_2 R_5 g_m s^4 + C_2 C_L L_2 L_L R_2 s^4 + C_2 C_L L_2 L_L R_5 s^4 + 2C_2 L_2 L_L R_2 g_m s^3 + 4C_2 L_2 L_L s^3 + C_2 L_2 R_2 R_5 g_m s^2 + C_2 L_2 R_2 s^2 + C_2 L_2 R_5 s^2 + C_L L_2 L_L R_5 g_m s^3 + C_L L_2 L_L s}$$

10.563 INVALID-ORDER-563 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ R_5,\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_2 L_2 R_2 R_5 g_m s^2 - C_2 L_2 R_2 s^2 -}{2C_2 C_L L_2 L_L R_2 g_m s^4 + 4C_2 C_L L_2 L_L s^4 + C_2 C_L L_2 R_2 R_5 g_m s^3 + 2C_2 C_L L_2 R_2 R_L g_m s^3 + C_2 C_L L_2 R_2 s^3 + C_2 C_L L_2 R_5 s^3 + 4C_2 C_L L_2 R_L s^3 + 2C_2 L_2 R_2 g_m s^2 + 4C_2 L_2 s^2 + 2C_L L_2}$$

10.564 INVALID-ORDER-564 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ R_5,\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2 C_L L_2 L_L R_2 R_5 R_L g_m s^4 + C_2 C_L L_2 L_L R_2 R_L s^4 + C_2 C_L L_2 L_L R_5 R_L s^4 + C_2 L_2 L_L R_2 R_5 g_m s^3 + 2C_2 L_2 L_L R_2 R_L g_m s^3 + C_2 L_2 L_L R_2 s^3 + C_2 L_2 L_L R_5 s^3 + 4C_2 L_2 L_L R_L s^3 + C_2 L}$$

10.565 INVALID-ORDER-565 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ R_5,\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{}{C_2 C_L L_2 L_L R_2 R_5 g_m s^4 + 2C_2 C_L L_2 L_L R_2 R_L g_m s^4 + C_2 C_L L_2 L_L R_2 s^4 + C_2 C_L L_2 L_L R_5 s^4 + 4C_2 C_L L_2 L_L R_L s^4 + 2C_2 L_2 L_L R_2 g_m s^3 + 4C_2 L_2 L_L s^3 + C_2 L_2 R_2 R_5 g_m s^2 + 2C_2 L_2 R}$$

10.566 INVALID-ORDER-566 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ R_5,\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_LL_2L_LR_2R_5g_ms^4 + 2C_2C_LL_2L_LR_2R_Lg_ms^4 + C_2C_LL_2L_LR_2s^4 + C_2C_LL_2L_LR_5s^4 + 4C_2C_LL_2L_LR_Ls^4 + C_2C_LL_2R_2R_5R_Lg_ms^3 + C_2C_LL_2R_2R_Ls^3 + C_2C_LL_2R_5R_Ls^3}$$

10.567 INVALID-ORDER-567 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 - C_5L_2s^2 - C_5R_2s + L_2g_ms + R_2g_m + 1\right)}{2C_2C_5L_2R_2R_Lg_ms^3 + C_2C_5L_2R_2s^3 + 4C_2C_5L_2R_Ls^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + 2C_5L_2R_Lg_ms^2 + C_5L_2s^2 + 2C_5R_2R_Lg_ms + C_5R_2s + 4C_5R_Ls + L_2g_ms + R_2g_m + 1}$$

10.568 INVALID-ORDER-568 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 - C_5L_2s^2 - C_5R_2s + L_2g_ms + R_2g_m + 1}{s\left(C_2C_5C_LL_2R_2s^3 + 2C_2C_5L_2R_2g_ms^2 + 4C_2C_5L_2s^2 + C_2C_LL_2R_2g_ms^2 + C_2C_LL_2s^2 + C_5C_LL_2s^2 + C_5C_LR_2s + 2C_5L_2g_ms + 2C_5R_2g_m + 4C_5 + C_LL_2g_ms + C_LR_2g_m + C\right.}$$

10.569 INVALID-ORDER-569 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 - C_5L_2s^2 - C_5R_2\right.}{C_2C_5C_LL_2R_2R_Ls^4 + 2C_2C_5L_2R_2R_Lg_ms^3 + C_2C_5L_2R_2s^3 + 4C_2C_5L_2R_Ls^3 + C_2C_LL_2R_2R_Lg_ms^3 + C_2C_LL_2R_Ls^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_5C_LL_2R_Ls^3 + C_5C_LR_2R_L}$$

10.570 INVALID-ORDER-570 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(-C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 - C_5L_2s^2 - C_5R_2s + L_2g_m\right.}{s\left(2C_2C_5C_LL_2R_2R_Lg_ms^3 + C_2C_5C_LL_2R_2s^3 + 4C_2C_5C_LL_2R_Ls^3 + 2C_2C_5L_2R_2g_ms^2 + 4C_2C_5L_2s^2 + C_2C_LL_2R_2g_ms^2 + C_2C_LL_2s^2 + 2C_5C_LL_2R_Lg_ms^2 + C_5C_LL_2s^2 + 2C_5\right.}$$

10.571 INVALID-ORDER-571 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2+1\right)\left(-C_2 C_5 L_2 R_2 s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^2 - C_5 L_2 s^2 - C_5 R_2 s + L_2 g\right.}{s\left(2C_2 C_5 C_L L_2 L_L R_2 g_m s^4 + 4C_2 C_5 C_L L_2 L_L s^4 + C_2 C_5 C_L L_2 R_2 s^3 + 2C_2 C_5 L_2 R_2 g_m s^2 + 4C_2 C_5 L_2 s^2 + C_2 C_L L_2 R_2 g_m s^2 + C_2 C_L L_2 s^2 + 2C_5 C_L L_2 L_L g_m s^3 + C_5 C_L L_2 s^2 + 2C_5\right.}$$

10.572 INVALID-ORDER-572 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(-C_2 C_5 L_2 R_2 s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^2 - C_5 L_2 s^2 - C_5 R\right.}{C_2 C_5 C_L L_2 L_L R_2 s^5 + 2C_2 C_5 L_2 L_L R_2 g_m s^4 + 4C_2 C_5 L_2 L_L s^4 + C_2 C_5 L_2 R_2 s^3 + C_2 C_L L_2 L_L R_2 g_m s^4 + C_2 C_L L_2 L_L s^4 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^2 + C_5 C_L L_2 L_L s^4 + C_5 C_L L_L R_2 s\right.}$$

10.573 INVALID-ORDER-573 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(-C_2 C_5 L_2 R_{\right.}}{s\left(2C_2 C_5 C_L L_2 L_L R_2 g_m s^4 + 4C_2 C_5 C_L L_2 L_L s^4 + 2C_2 C_5 C_L L_2 R_2 R_L g_m s^3 + C_2 C_5 C_L L_2 R_2 s^3 + 4C_2 C_5 C_L L_2 R_L s^3 + 2C_2 C_5 L_2 R_2 g_m s^2 + 4C_2 C_5 L_2 s^2 + C_2 C_L L_2 R_2 g_m s^2 + C_2 C\right.}$$

10.574 INVALID-ORDER-574 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_2 L_L R_2 R_L s^5 + 2C_2 C_5 L_2 L_L R_2 R_L g_m s^4 + C_2 C_5 L_2 L_L R_2 s^4 + 4C_2 C_5 L_2 L_L R_L s^4 + C_2 C_5 L_2 R_2 R_L s^3 + C_2 C_L L_2 L_L R_2 R_L g_m s^4 + C_2 C_L L_2 L_L R_L s^4 + C_2 L_2 L_L R_2 g_m s^3 +}$$

10.575 INVALID-ORDER-575 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{}{2C_2 C_5 C_L L_2 L_L R_2 R_L g_m s^5 + C_2 C_5 C_L L_2 L_L R_2 s^5 + 4C_2 C_5 C_L L_2 L_L R_L s^5 + 2C_2 C_5 L_2 L_L R_2 g_m s^4 + 4C_2 C_5 L_2 L_L s^4 + 2C_2 C_5 L_2 R_2 R_L g_m s^3 + C_2 C_5 L_2 R_2 s^3 + 4C_2 C_5 L_2 R_L s^3 + C}$$

10.576 INVALID-ORDER-576 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2L_LR_2R_Lg_ms^5 + C_2C_5C_LL_2L_LR_2s^5 + 4C_2C_5C_LL_2L_LR_Ls^5 + C_2C_5C_LL_2R_2R_Ls^4 + 2C_2C_5L_2R_2R_Lg_ms^3 + C_2C_5L_2R_2s^3 + 4C_2C_5L_2R_Ls^3 + C_2C_LL_2L_LR_2g_ms^4}$$

10.577 INVALID-ORDER-577 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2R_2R_5s^3 + C_2L_2R_2R_5g_ms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 - C_5L_2R_5s^2 - C_5R_2R_5\right.}{2C_2C_5L_2R_2R_5R_Lg_ms^3 + C_2C_5L_2R_2R_5s^3 + 4C_2C_5L_2R_5R_Ls^3 + C_2L_2R_2R_5g_ms^2 + 2C_2L_2R_2R_Lg_ms^2 + C_2L_2R_2s^2 + C_2L_2R_5s^2 + 4C_2L_2R_Ls^2 + 2C_5L_2R_5R_Lg_ms^2 + C_5L_2R}$$

10.578 INVALID-ORDER-578 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2C_5L_2R_2R_5s^3 + C_2L_2R_2R_5g_ms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 - C_5L_2R_5s^2 - C_5R_2}{C_2C_5C_LL_2R_2R_5s^4 + 2C_2C_5L_2R_2R_5g_ms^3 + 4C_2C_5L_2R_5s^3 + C_2C_LL_2R_2R_5g_ms^3 + C_2C_LL_2R_2s^3 + C_2C_LL_2R_5s^3 + 2C_2L_2R_2g_ms^2 + 4C_2L_2s^2 + C_5C_LL_2R_5s^3 + C_5C_LR_2R_5}$$

10.579 INVALID-ORDER-579 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2R_2R_5R_Ls^4 + 2C_2C_5L_2R_2R_5R_Lg_ms^3 + C_2C_5L_2R_2R_5s^3 + 4C_2C_5L_2R_5R_Ls^3 + C_2C_LL_2R_2R_5R_Lg_ms^3 + C_2C_LL_2R_2R_Ls^3 + C_2C_LL_2R_5R_Ls^3 + C_2L_2R_2R_5g_ms^2 +}$$

10.580 INVALID-ORDER-580 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2R_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_2R_5s^4 + 4C_2C_5C_LL_2R_5R_Ls^4 + 2C_2C_5L_2R_2R_5g_ms^3 + 4C_2C_5L_2R_5s^3 + C_2C_LL_2R_2R_5g_ms^3 + 2C_2C_LL_2R_2R_Lg_ms^3 + C_2C_LL_2R_2}$$

10.581 INVALID-ORDER-581 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{2C_2C_5C_LL_2L_LR_2R_5g_ms^5 + 4C_2C_5C_LL_2L_LR_5s^5 + C_2C_5C_LL_2R_2R_5s^4 + 2C_2C_5L_2R_2R_5g_ms^3 + 4C_2C_5L_2R_5s^3 + 2C_2C_LL_2L_LR_2g_ms^4 + 4C_2C_LL_2L_Ls^4 + C_2C_LL_2R_2R_5g_$$

10.582 INVALID-ORDER-582 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{C_2C_5C_LL_2L_LR_2R_5s^5 + 2C_2C_5L_2L_LR_2R_5g_ms^4 + 4C_2C_5L_2L_LR_5s^4 + C_2C_5L_2R_2R_5s^3 + C_2C_LL_2L_LR_2R_5g_ms^4 + C_2C_LL_2L_LR_2s^4 + C_2C_LL_2L_LR_5s^4 + 2C_2L_2L_LR_2g_ms^3 +$$

10.583 INVALID-ORDER-583 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{2C_2C_5C_LL_2L_LR_2R_5g_ms^5 + 4C_2C_5C_LL_2L_LR_5s^5 + 2C_2C_5C_LL_2R_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_2R_5s^4 + 4C_2C_5C_LL_2R_5R_Ls^4 + 2C_2C_5L_2R_2R_5g_ms^3 + 4C_2C_5L_2R_5s^3 + 2C_2C$$

10.584 INVALID-ORDER-584 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{C_2C_5C_LL_2L_LR_2R_5R_Ls^5 + 2C_2C_5L_2L_LR_2R_5R_Lg_ms^4 + C_2C_5L_2L_LR_2R_5s^4 + 4C_2C_5L_2L_LR_5R_Ls^4 + C_2C_5L_2R_2R_5R_Ls^3 + C_2C_LL_2L_LR_2R_5R_Lg_ms^4 + C_2C_LL_2L_LR_2R_Ls^4 -$$

10.585 INVALID-ORDER-585 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = -\frac{2C_2C_5C_LL_2L_LR_2R_5R_Lg_ms^5 + C_2C_5C_LL_2L_LR_2R_5s^5 + 4C_2C_5C_LL_2L_LR_5R_Ls^5 + 2C_2C_5L_2L_LR_2R_5g_ms^4 + 4C_2C_5L_2L_LR_5s^4 + 2C_2C_5L_2R_2R_5R_Lg_ms^3 + C_2C_5L_2R_2R_5s^3$$

10.586 INVALID-ORDER-586 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = -\frac{2C_2C_5C_LL_2L_LR_2R_5R_Lg_ms^5 + C_2C_5C_LL_2L_LR_2R_5s^5 + 4C_2C_5C_LL_2L_LR_5R_Ls^5 + C_2C_5C_LL_2R_2R_5R_Ls^4 + 2C_2C_5L_2R_2R_5R_Lg_ms^3 + C_2C_5L_2R_2R_5s^3 + 4C_2C_5L_2R_5R_Ls^3}{}$$

10.587 INVALID-ORDER-587 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2R_2R_5g_ms^3 - C_2C_5L_2R_2s^3 + C_2C_5L_2R_5s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_5L_2R_5g_ms^2 - C_5L_2s^2 + C_5R_2R_5g_ms - C_5R_2s\right.}{C_2C_5L_2R_2R_5g_ms^3 + 2C_2C_5L_2R_2R_Lg_ms^3 + C_2C_5L_2R_2s^3 + C_2C_5L_2R_5s^3 + 4C_2C_5L_2R_Ls^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_5L_2R_5g_ms^2 + 2C_5L_2R_Lg_ms^2 + C_5L_2s^2 + C_5R_2R_5$$

10.588 INVALID-ORDER-588 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2R_2R_5g_ms^3 - C_2C_5L_2R_2s^3 + C_2C_5L_2R_5s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_5L_2R_5g_ms^2 - C_5L_2s^2 + C_5R_2R_5g_m}{s\left(C_2C_5C_LL_2R_2R_5g_ms^3 + C_2C_5C_LL_2R_2s^3 + C_2C_5C_LL_2R_5s^3 + 2C_2C_5L_2R_2g_ms^2 + 4C_2C_5L_2s^2 + C_2C_LL_2R_2g_ms^2 + C_2C_LL_2s^2 + C_5C_LL_2R_5g_ms^2 + C_5C_LL_2s^2 + C_5C_LR_2\right.}$$

10.589 INVALID-ORDER-589 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(C_2\right.}{C_2C_5C_LL_2R_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_2R_Ls^4 + C_2C_5C_LL_2R_5R_Ls^4 + C_2C_5L_2R_2R_5g_ms^3 + 2C_2C_5L_2R_2R_Lg_ms^3 + C_2C_5L_2R_2s^3 + C_2C_5L_2R_5s^3 + 4C_2C_5L_2R_Ls^3 + C_2C_L$$

10.590 INVALID-ORDER-590 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(C_2C_5L_2R_2R_5g_ms^3 - C_2C_5L_2R_2s^3 + C_2C_5L_2R_5s^3 + C_2L_2R\right.}{s\left(C_2C_5C_LL_2R_2R_5g_ms^3 + 2C_2C_5C_LL_2R_2R_Lg_ms^3 + C_2C_5C_LL_2R_2s^3 + C_2C_5C_LL_2R_5s^3 + 4C_2C_5C_LL_2R_Ls^3 + 2C_2C_5L_2R_2g_ms^2 + 4C_2C_5L_2s^2 + C_2C_LL_2R_2g_ms^2 + C_2C_LL\right.}$$

10.591 INVALID-ORDER-591 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2+1\right)\left(C_2 C_5 L_2 R_2 R_5 g_m s^3 - C_2 C_5 L_2 R_2 s^3 + C_2 C_5 L_2 R_5 s^3 + C_2 L_2 \right.}{s\left(2C_2 C_5 C_L L_2 L_L R_2 g_m s^4 + 4C_2 C_5 C_L L_2 L_L s^4 + C_2 C_5 C_L L_2 R_2 R_5 g_m s^3 + C_2 C_5 C_L L_2 R_2 s^3 + C_2 C_5 C_L L_2 R_5 s^3 + 2C_2 C_5 L_2 R_2 g_m s^2 + 4C_2 C_5 L_2 s^2 + C_2 C_L L_2 R_2 g_m s^2 + C_2 C_L L\right.}$$

10.592 INVALID-ORDER-592 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(C_2\right.}{C_2 C_5 C_L L_2 L_L R_2 R_5 g_m s^5 + C_2 C_5 C_L L_2 L_L R_2 s^5 + C_2 C_5 C_L L_2 L_L R_5 s^5 + 2C_2 C_5 L_2 L_L R_2 g_m s^4 + 4C_2 C_5 L_2 L_L s^4 + C_2 C_5 L_2 R_2 R_5 g_m s^3 + C_2 C_5 L_2 R_2 s^3 + C_2 C_5 L_2 R_5 s^3 + C_2 C_L L\right.}$$

10.593 INVALID-ORDER-593 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_2 C\right.}{s\left(2C_2 C_5 C_L L_2 L_L R_2 g_m s^4 + 4C_2 C_5 C_L L_2 L_L s^4 + C_2 C_5 C_L L_2 R_2 R_5 g_m s^3 + 2C_2 C_5 C_L L_2 R_2 R_L g_m s^3 + C_2 C_5 C_L L_2 R_2 s^3 + C_2 C_5 C_L L_2 R_5 s^3 + 4C_2 C_5 C_L L_2 R_L s^3 + 2C_2 C_5 L_2 R_2 g_m\right.}$$

10.594 INVALID-ORDER-594 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_2 L_L R_2 R_5 R_L g_m s^5 + C_2 C_5 C_L L_2 L_L R_2 R_L s^5 + C_2 C_5 C_L L_2 L_L R_5 R_L s^5 + C_2 C_5 L_2 L_L R_2 R_5 g_m s^4 + 2C_2 C_5 L_2 L_L R_2 R_L g_m s^4 + C_2 C_5 L_2 L_L R_2 s^4 + C_2 C_5 L_2 L_L R_5 s^4 + 4C$$

10.595 INVALID-ORDER-595 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_2 L_L R_2 R_5 g_m s^5 + 2C_2 C_5 C_L L_2 L_L R_2 R_L g_m s^5 + C_2 C_5 C_L L_2 L_L R_2 s^5 + C_2 C_5 C_L L_2 L_L R_5 s^5 + 4C_2 C_5 C_L L_2 L_L R_L s^5 + 2C_2 C_5 L_2 L_L R_2 g_m s^4 + 4C_2 C_5 L_2 L_L s^4 + C_2 C_5 L_2$$

10.596 INVALID-ORDER-596 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_LR_2R_5g_ms^5 + 2C_2C_5C_LL_2L_LR_2R_Lg_ms^5 + C_2C_5C_LL_2L_LR_2s^5 + C_2C_5C_LL_2L_LR_5s^5 + 4C_2C_5C_LL_2L_LR_Ls^5 + C_2C_5C_LL_2R_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_2R_Ls^4 +$$

10.597 INVALID-ORDER-597 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 - C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_5L_2L_5g_ms^3 - C_5L_2s^2 + C_5L_5R_2g_ms^2 + C_5L_5\right.}{C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 + 2C_2C_5L_2R_2R_Lg_ms^3 + C_2C_5L_2R_2s^3 + 4C_2C_5L_2R_Ls^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_5L_2L_5g_ms^3 + 2C_5L_2R_Lg_ms^2 + C_5L_2s^2 + C_5L_5R_2$$

10.598 INVALID-ORDER-598 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 - C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_5L_2L_5g_ms^3 - C_5L_2s^2 + C_5L_5R_2g_ms}{s\left(C_2C_5C_LL_2L_5R_2g_ms^4 + C_2C_5C_LL_2L_5s^4 + C_2C_5C_LL_2R_2s^3 + 2C_2C_5L_2R_2g_ms^2 + 4C_2C_5L_2s^2 + C_2C_LL_2R_2g_ms^2 + C_2C_LL_2s^2 + C_5C_LL_2L_5g_ms^3 + C_5C_LL_2s^2 + C_5C_LL_5\right.}$$

10.599 INVALID-ORDER-599 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(C_2C\right.}{C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_Ls^5 + C_2C_5C_LL_2R_2R_Ls^4 + C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 + 2C_2C_5L_2R_2R_Lg_ms^3 + C_2C_5L_2R_2s^3 + 4C_2C_5L_2R_Ls^3 + C_2C_L$$

10.600 INVALID-ORDER-600 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 - C_2C_5L_2R_2s^3 + C_2L_2R_\right.}{s\left(C_2C_5C_LL_2L_5R_2g_ms^4 + C_2C_5C_LL_2L_5s^4 + 2C_2C_5C_LL_2R_2R_Lg_ms^3 + C_2C_5C_LL_2R_2s^3 + 4C_2C_5C_LL_2R_Ls^3 + 2C_2C_5L_2R_2g_ms^2 + 4C_2C_5L_2s^2 + C_2C_LL_2R_2g_ms^2 + C_2C_LL\right.}$$

10.601 INVALID-ORDER-601 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 L_2 L_5 R_2 g_m s^4 + C_2 C_5 L_2 L_5 s^4 - C_2 C_5 L_2 R_2 s^3 + C_2 L_2 I\right.}{s\left(C_2 C_5 C_L L_2 L_5 R_2 g_m s^4 + C_2 C_5 C_L L_2 L_5 s^4 + 2 C_2 C_5 C_L L_2 L_L R_2 g_m s^4 + 4 C_2 C_5 C_L L_2 L_L s^4 + C_2 C_5 C_L L_2 R_2 s^3 + 2 C_2 C_5 L_2 R_2 g_m s^2 + 4 C_2 C_5 L_2 s^2 + C_2 C_L L_2 R_2 g_m s^2 + C_2 C_L L_2\right.}$$

10.602 INVALID-ORDER-602 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(C_2\right.}{C_2 C_5 C_L L_2 L_5 L_L R_2 g_m s^6 + C_2 C_5 C_L L_2 L_5 L_L s^6 + C_2 C_5 C_L L_2 L_L R_2 s^5 + C_2 C_5 L_2 L_5 R_2 g_m s^4 + C_2 C_5 L_2 L_5 s^4 + 2 C_2 C_5 L_2 L_L R_2 g_m s^4 + 4 C_2 C_5 L_2 L_L s^4 + C_2 C_5 L_2 R_2 s^3 + C_2 C_L L_2\right.}$$

10.603 INVALID-ORDER-603 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_2 C\right.}{s\left(C_2 C_5 C_L L_2 L_5 R_2 g_m s^4 + C_2 C_5 C_L L_2 L_5 s^4 + 2 C_2 C_5 C_L L_2 L_L R_2 g_m s^4 + 4 C_2 C_5 C_L L_2 L_L s^4 + 2 C_2 C_5 C_L L_2 R_2 R_L g_m s^3 + C_2 C_5 C_L L_2 R_2 s^3 + 4 C_2 C_5 C_L L_2 R_L s^3 + 2 C_2 C_5 L_2 R_2 g_m\right.}$$

10.604 INVALID-ORDER-604 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_2 L_5 L_L R_2 R_L g_m s^6 + C_2 C_5 C_L L_2 L_5 L_L R_L s^6 + C_2 C_5 C_L L_2 L_L R_2 R_L s^5 + C_2 C_5 L_2 L_5 L_L R_2 g_m s^5 + C_2 C_5 L_2 L_5 L_L s^5 + C_2 C_5 L_2 L_5 R_2 R_L g_m s^4 + C_2 C_5 L_2 L_5 R_L s^4 + 2 C_2 C\right.}$$

10.605 INVALID-ORDER-605 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_2 L_5 L_L R_2 g_m s^6 + C_2 C_5 C_L L_2 L_5 L_L s^6 + 2 C_2 C_5 C_L L_2 L_L R_2 R_L g_m s^5 + C_2 C_5 C_L L_2 L_L R_2 s^5 + 4 C_2 C_5 C_L L_2 L_L R_L s^5 + C_2 C_5 L_2 L_5 R_2 g_m s^4 + C_2 C_5 L_2 L_5 s^4 + 2 C_2 C_5 L_2 L\right.}$$

10.606 INVALID-ORDER-606 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2g_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_Ls^5 + 2C_2C_5C_LL_2L_LR_2R_Lg_ms^5 + C_2C_5C_LL_2L_LR_2s^5 + 4C_2C_5C_LL_2L_LR_Ls^5 +$$

10.607 INVALID-ORDER-607 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2L_5R_2s^4 + C_2L_2L_5R_2g_ms^3 + C_2L_2L_5s^3 - C_2L_2R_2s^2 - C_5L_2L_5s^3 - C_5L_5R_2\right.}{2C_2C_5L_2L_5R_2R_Lg_ms^4 + C_2C_5L_2L_5R_2s^4 + 4C_2C_5L_2L_5R_Ls^4 + C_2L_2L_5R_2g_ms^3 + C_2L_2L_5s^3 + 2C_2L_2R_2R_Lg_ms^2 + C_2L_2R_2s^2 + 4C_2L_2R_Ls^2 + 2C_5L_2L_5R_Lg_ms^3 + C_5L_2L_5$$

10.608 INVALID-ORDER-608 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2C_5L_2L_5R_2s^4 + C_2L_2L_5R_2g_ms^3 + C_2L_2L_5s^3 - C_2L_2R_2s^2 - C_5L_2L_5s^3 - C_5L_5R}{C_2C_5C_LL_2L_5R_2s^5 + 2C_2C_5L_2L_5R_2g_ms^4 + 4C_2C_5L_2L_5s^4 + C_2C_LL_2L_5R_2g_ms^4 + C_2C_LL_2L_5s^4 + C_2C_LL_2R_2s^3 + 2C_2L_2R_2g_ms^2 + 4C_2L_2s^2 + C_5C_LL_2L_5s^4 + C_5C_LL_5R_2s$$

10.609 INVALID-ORDER-609 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5R_2R_Ls^5 + 2C_2C_5L_2L_5R_2R_Lg_ms^4 + C_2C_5L_2L_5R_2s^4 + 4C_2C_5L_2L_5R_Ls^4 + C_2C_LL_2L_5R_2R_Lg_ms^4 + C_2C_LL_2L_5R_Ls^4 + C_2C_LL_2R_2R_Ls^3 + C_2L_2L_5R_2g_ms^3 + C$$

10.610 INVALID-ORDER-610 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + 4C_2C_5C_LL_2L_5R_Ls^5 + 2C_2C_5L_2L_5R_2g_ms^4 + 4C_2C_5L_2L_5s^4 + C_2C_LL_2L_5R_2g_ms^4 + C_2C_LL_2L_5s^4 + 2C_2C_LL_2R_2R_Lg_ms$$

10.611 INVALID-ORDER-611 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{2C_2C_5C_LL_2L_5L_LR_2g_ms^6 + 4C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_2s^5 + 2C_2C_5L_2L_5R_2g_ms^4 + 4C_2C_5L_2L_5s^4 + C_2C_LL_2L_5R_2g_ms^4 + C_2C_LL_2L_5s^4 + 2C_2C_LL_2L_LR_2g_ms^4}{}$$

10.612 INVALID-ORDER-612 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{C_2C_5C_LL_2L_5L_LR_2s^6 + 2C_2C_5L_2L_5L_LR_2g_ms^5 + 4C_2C_5L_2L_5L_Ls^5 + C_2C_5L_2L_5R_2s^4 + C_2C_LL_2L_5L_LR_2g_ms^5 + C_2C_LL_2L_5L_Ls^5 + C_2C_LL_2L_LR_2s^4 + C_2L_2L_5R_2g_ms^3 + C}{}$$

10.613 INVALID-ORDER-613 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{2C_2C_5C_LL_2L_5L_LR_2g_ms^6 + 4C_2C_5C_LL_2L_5L_Ls^6 + 2C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + 4C_2C_5C_LL_2L_5R_Ls^5 + 2C_2C_5L_2L_5R_2g_ms^4 + 4C_2C_5L_2L_5s^4 + C_2C_L}{}$$

10.614 INVALID-ORDER-614 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{C_2C_5C_LL_2L_5L_LR_2R_Ls^6 + 2C_2C_5L_2L_5L_LR_2R_Lg_ms^5 + C_2C_5L_2L_5L_LR_2s^5 + 4C_2C_5L_2L_5L_LR_Ls^5 + C_2C_5L_2L_5R_2R_Ls^4 + C_2C_LL_2L_5L_LR_2R_Lg_ms^5 + C_2C_LL_2L_5L_LR_Ls^5 +}{}$$

10.615 INVALID-ORDER-615 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = -\frac{2C_2C_5C_LL_2L_5L_LR_2R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2s^6 + 4C_2C_5C_LL_2L_5L_LR_Ls^6 + 2C_2C_5L_2L_5L_LR_2g_ms^5 + 4C_2C_5L_2L_5L_Ls^5 + 2C_2C_5L_2L_5R_2R_Lg_ms^4 + C_2C_5L_2L_5R_2s^4 +}{}$$

10.616 INVALID-ORDER-616 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5L_LR_2R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2s^6 + 4C_2C_5C_LL_2L_5L_LR_Ls^6 + C_2C_5C_LL_2L_5R_2R_Ls^5 + 2C_2C_5L_2L_5R_2R_Lg_ms^4 + C_2C_5L_2L_5R_2s^4 + 4C_2C_5L_2L_5R_Ls^4 +$$

10.617 INVALID-ORDER-617 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 + C_2C_5L_2R_2R_5g_ms^3 - C_2C_5L_2R_2s^3 + C_2C_5L_2R_5s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_5L_2L_5g_m\right.}{C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 + C_2C_5L_2R_2R_5g_ms^3 + 2C_2C_5L_2R_2R_Lg_ms^3 + C_2C_5L_2R_2s^3 + C_2C_5L_2R_5s^3 + 4C_2C_5L_2R_Ls^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_5L_2L_5g_ms^3 +$$

10.618 INVALID-ORDER-618 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 + C_2C_5L_2R_2R_5g_ms^3 - C_2C_5L_2R_2s^3 + C_2C_5L_2R_5s^3 + C_2L_2R_2g_ms^2 + C_2L}{s\left(C_2C_5C_LL_2L_5R_2g_ms^4 + C_2C_5C_LL_2L_5s^4 + C_2C_5C_LL_2R_2R_5g_ms^3 + C_2C_5C_LL_2R_2s^3 + C_2C_5C_LL_2R_5s^3 + 2C_2C_5L_2R_2g_ms^2 + 4C_2C_5L_2s^2 + C_2C_LL_2R_2g_ms^2 + C_2C_LL_2s^2\right.}$$

10.619 INVALID-ORDER-619 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_Ls^5 + C_2C_5C_LL_2R_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_2R_Ls^4 + C_2C_5C_LL_2R_5R_Ls^4 + C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 + C_2C_5L_2R_2R_5$$

10.620 INVALID-ORDER-620 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 + C_2C_5L_2R_2R_5g_\right.}{s\left(C_2C_5C_LL_2L_5R_2g_ms^4 + C_2C_5C_LL_2L_5s^4 + C_2C_5C_LL_2R_2R_5g_ms^3 + 2C_2C_5C_LL_2R_2R_Lg_ms^3 + C_2C_5C_LL_2R_2s^3 + C_2C_5C_LL_2R_5s^3 + 4C_2C_5C_LL_2R_Ls^3 + 2C_2C_5L_2R_2g_ms^2\right.}$$

10.621 INVALID-ORDER-621 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + 1\right)\left(C_2 C_5 L_2 L_5 R_2 g_m s^4 + C_2 C_5 L_2 L_5 s^4 + C_2 C_5 L_2 R_2 R_5 g\right.}{s\left(C_2 C_5 C_L L_2 L_5 R_2 g_m s^4 + C_2 C_5 C_L L_2 L_5 s^4 + 2 C_2 C_5 C_L L_2 L_L R_2 g_m s^4 + 4 C_2 C_5 C_L L_2 L_L s^4 + C_2 C_5 C_L L_2 R_2 R_5 g_m s^3 + C_2 C_5 C_L L_2 R_2 s^3 + C_2 C_5 C_L L_2 R_5 s^3 + 2 C_2 C_5 L_2 R_2 g_m s^2\right.}$$

10.622 INVALID-ORDER-622 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_2 L_5 L_L R_2 g_m s^6 + C_2 C_5 C_L L_2 L_5 L_L s^6 + C_2 C_5 C_L L_2 L_L R_2 R_5 g_m s^5 + C_2 C_5 C_L L_2 L_L R_2 s^5 + C_2 C_5 C_L L_2 L_L R_5 s^5 + C_2 C_5 L_2 L_5 R_2 g_m s^4 + C_2 C_5 L_2 L_5 s^4 + 2 C_2 C_5 L_2 L_L R_2}$$

10.623 INVALID-ORDER-623 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s +\right.}{s\left(C_2 C_5 C_L L_2 L_5 R_2 g_m s^4 + C_2 C_5 C_L L_2 L_5 s^4 + 2 C_2 C_5 C_L L_2 L_L R_2 g_m s^4 + 4 C_2 C_5 C_L L_2 L_L s^4 + C_2 C_5 C_L L_2 R_2 R_5 g_m s^3 + 2 C_2 C_5 C_L L_2 R_2 R_L g_m s^3 + C_2 C_5 C_L L_2 R_2 s^3 + C_2 C_5 C_L L_\right.}$$

10.624 INVALID-ORDER-624 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_2 L_5 L_L R_2 R_L g_m s^6 + C_2 C_5 C_L L_2 L_5 L_L R_L s^6 + C_2 C_5 C_L L_2 L_L R_2 R_5 R_L g_m s^5 + C_2 C_5 C_L L_2 L_L R_2 R_L s^5 + C_2 C_5 C_L L_2 L_L R_5 R_L s^5 + C_2 C_5 L_2 L_5 L_L R_2 g_m s^5 + C_2 C_5 L_2 L_5}$$

10.625 INVALID-ORDER-625 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{}{C_2 C_5 C_L L_2 L_5 L_L R_2 g_m s^6 + C_2 C_5 C_L L_2 L_5 L_L s^6 + C_2 C_5 C_L L_2 L_L R_2 R_5 g_m s^5 + 2 C_2 C_5 C_L L_2 L_L R_2 R_L g_m s^5 + C_2 C_5 C_L L_2 L_L R_2 s^5 + C_2 C_5 C_L L_2 L_L R_5 s^5 + 4 C_2 C_5 C_L L_2 L_L R_L s^5 +}$$

10.626 INVALID-ORDER-626 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{R_L\left(L_L s + \frac{1}{C_L s}\right)}{L_L s + R_L + \frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2g_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_Ls^5 + C_2C_5C_LL_2L_LR_2R_5g_ms^5 + 2C_2C_5C_LL_2L_LR_2R_Lg_ms^5 + C_2C_5C_LL_2L_LR_2$$

10.627 INVALID-ORDER-627 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2L_5R_2R_5s^4 + C_2L_2L\right.}{2C_2C_5L_2L_5R_2R_5R_Lg_ms^4 + C_2C_5L_2L_5R_2R_5s^4 + 4C_2C_5L_2L_5R_5R_Ls^4 + C_2L_2L_5R_2R_5g_ms^3 + 2C_2L_2L_5R_2R_Lg_ms^3 + C_2L_2L_5R_2s^3 + C_2L_2L_5R_5s^3 + 4C_2L_2L_5R_Ls^3 + 2C_2L_2$$

10.628 INVALID-ORDER-628 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2C_5L_2L_5R_2R_5s^4 + C_2L_2L_5}{C_2C_5C_LL_2L_5R_2R_5s^5 + 2C_2C_5L_2L_5R_2R_5g_ms^4 + 4C_2C_5L_2L_5R_5s^4 + C_2C_LL_2L_5R_2R_5g_ms^4 + C_2C_LL_2L_5R_2s^4 + C_2C_LL_2L_5R_5s^4 + C_2C_LL_2R_2R_5s^3 + 2C_2L_2L_5R_2g_ms^3 + 4$$

10.629 INVALID-ORDER-629 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5R_2R_5R_Ls^5 + 2C_2C_5L_2L_5R_2R_5R_Lg_ms^4 + C_2C_5L_2L_5R_2R_5s^4 + 4C_2C_5L_2L_5R_5R_Ls^4 + C_2C_LL_2L_5R_2R_5R_Lg_ms^4 + C_2C_LL_2L_5R_2R_Ls^4 + C_2C_LL_2L_5R_5R_Ls^4 +$$

10.630 INVALID-ORDER-630 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5R_2R_5R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2R_5s^5 + 4C_2C_5C_LL_2L_5R_5R_Ls^5 + 2C_2C_5L_2L_5R_2R_5g_ms^4 + 4C_2C_5L_2L_5R_5s^4 + C_2C_LL_2L_5R_2R_5g_ms^4 + 2C_2C_LL_2L_5R_2R_L$$

10.631 INVALID-ORDER-631 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5L_LR_2R_5g_ms^6 + 4C_2C_5C_LL_2L_5L_LR_5s^6 + C_2C_5C_LL_2L_5R_2R_5s^5 + 2C_2C_5L_2L_5R_2R_5g_ms^4 + 4C_2C_5L_2L_5R_5s^4 + 2C_2C_LL_2L_5L_LR_2g_ms^5 + 4C_2C_LL_2L_5L_Ls^5}$$

10.632 INVALID-ORDER-632 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2R_5s^6 + 2C_2C_5L_2L_5L_LR_2R_5g_ms^5 + 4C_2C_5L_2L_5L_LR_5s^5 + C_2C_5L_2L_5R_2R_5s^4 + C_2C_LL_2L_5L_LR_2R_5g_ms^5 + C_2C_LL_2L_5L_LR_2s^5 + C_2C_LL_2L_5L_LR_5s^5 + C}$$

10.633 INVALID-ORDER-633 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5L_LR_2R_5g_ms^6 + 4C_2C_5C_LL_2L_5L_LR_5s^6 + 2C_2C_5C_LL_2L_5R_2R_5R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2R_5s^5 + 4C_2C_5C_LL_2L_5R_5R_Ls^5 + 2C_2C_5L_2L_5R_2R_5g_ms^4 + 4C_2C}$$

10.634 INVALID-ORDER-634 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2R_5R_Ls^6 + 2C_2C_5L_2L_5L_LR_2R_5R_Lg_ms^5 + C_2C_5L_2L_5L_LR_2R_5s^5 + 4C_2C_5L_2L_5L_LR_5R_Ls^5 + C_2C_5L_2L_5R_2R_5R_Ls^4 + C_2C_LL_2L_5L_LR_2R_5R_Lg_ms^5 + C_2C}$$

10.635 INVALID-ORDER-635 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5L_LR_2R_5R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2R_5s^6 + 4C_2C_5C_LL_2L_5L_LR_5R_Ls^6 + 2C_2C_5L_2L_5L_LR_2R_5g_ms^5 + 4C_2C_5L_2L_5L_LR_5s^5 + 2C_2C_5L_2L_5R_2R_5R_Lg_ms^4 +}$$

10.636 INVALID-ORDER-636 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5L_LR_2R_5R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2R_5s^6 + 4C_2C_5C_LL_2L_5L_LR_5R_Ls^6 + C_2C_5C_LL_2L_5R_2R_5R_Ls^5 + 2C_2C_5L_2L_5R_2R_5R_Lg_ms^4 + C_2C_5L_2L_5R_2R_5s^4 + 4C$$

10.637 INVALID-ORDER-637 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2L_5R_2R_5g_ms^4 - C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_5s^4 + C_2L_2L_5R_2g_ms^3 + C_2L_2\right.}{C_2C_5L_2L_5R_2R_5g_ms^4 + 2C_2C_5L_2L_5R_2R_Lg_ms^4 + C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_5s^4 + 4C_2C_5L_2L_5R_Ls^4 + C_2L_2L_5R_2g_ms^3 + C_2L_2L_5s^3 + C_2L_2R_2R_5g_ms^2 + 2C_2L_2R_2R_Lg_m}$$

10.638 INVALID-ORDER-638 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2L_5R_2R_5g_ms^4 - C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_5s^4 + C_2L_2}{C_2C_5C_LL_2L_5R_2R_5g_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + C_2C_5C_LL_2L_5R_5s^5 + 2C_2C_5L_2L_5R_2g_ms^4 + 4C_2C_5L_2L_5s^4 + C_2C_LL_2L_5R_2g_ms^4 + C_2C_LL_2L_5s^4 + C_2C_LL_2R_2R_5g_ms^3 + C_2}$$

10.639 INVALID-ORDER-639 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5R_2R_5R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2R_Ls^5 + C_2C_5C_LL_2L_5R_5R_Ls^5 + C_2C_5L_2L_5R_2R_5g_ms^4 + 2C_2C_5L_2L_5R_2R_Lg_ms^4 + C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_5s^4 + 4C_2C$$

10.640 INVALID-ORDER-640 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5R_2R_5g_ms^5 + 2C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + C_2C_5C_LL_2L_5R_5s^5 + 4C_2C_5C_LL_2L_5R_Ls^5 + 2C_2C_5L_2L_5R_2g_ms^4 + 4C_2C_5L_2L_5s^4 + C_2C_LL_2L$$

10.641 INVALID-ORDER-641 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2L_5L_LR_2g_ms^6 + 4C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_2R_5g_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + C_2C_5C_LL_2L_5R_5s^5 + 2C_2C_5L_2L_5R_2g_ms^4 + 4C_2C_5L_2L_5s^4 + C_2C_LL_2L_5$$

10.642 INVALID-ORDER-642 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2R_5g_ms^6 + C_2C_5C_LL_2L_5L_LR_2s^6 + C_2C_5C_LL_2L_5L_LR_5s^6 + 2C_2C_5L_2L_5L_LR_2g_ms^5 + 4C_2C_5L_2L_5L_Ls^5 + C_2C_5L_2L_5R_2R_5g_ms^4 + C_2C_5L_2L_5R_2s^4 + C_2C$$

10.643 INVALID-ORDER-643 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2L_5L_LR_2g_ms^6 + 4C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_2R_5g_ms^5 + 2C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + C_2C_5C_LL_2L_5R_5s^5 + 4C_2C_5C_LL_2L_5R_Ls^5 +$$

10.644 INVALID-ORDER-644 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2R_5R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2R_Ls^6 + C_2C_5C_LL_2L_5L_LR_5R_Ls^6 + C_2C_5L_2L_5L_LR_2R_5g_ms^5 + 2C_2C_5L_2L_5L_LR_2R_Lg_ms^5 + C_2C_5L_2L_5L_LR_2s^5 + C_2C_5$$

10.645 INVALID-ORDER-645 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2R_5g_ms^6 + 2C_2C_5C_LL_2L_5L_LR_2R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2s^6 + C_2C_5C_LL_2L_5L_LR_5s^6 + 4C_2C_5C_LL_2L_5L_LR_Ls^6 + 2C_2C_5L_2L_5L_LR_2g_ms^5 + 4C_2C_5L_2$$

10.646 INVALID-ORDER-646 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1} + R_5,\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2R_5g_ms^6 + 2C_2C_5C_LL_2L_5L_LR_2R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2s^6 + C_2C_5C_LL_2L_5L_LR_5s^6 + 4C_2C_5C_LL_2L_5L_LR_Ls^6 + C_2C_5C_LL_2L_5R_2R_5R_Lg_ms^5 + C_2C$$

10.647 INVALID-ORDER-647 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2L_5R_2R_5g_ms^4 - C_2C_5L_2L_5\right.}{C_2C_5L_2L_5R_2R_5g_ms^4 + 2C_2C_5L_2L_5R_2R_Lg_ms^4 + C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_5s^4 + 4C_2C_5L_2L_5R_Ls^4 + 2C_2C_5L_2R_2R_5R_Lg_ms^3 + C_2C_5L_2R_2R_5s^3 + 4C_2C_5L_2R_5R_Ls^3 +}$$

10.648 INVALID-ORDER-648 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2L_5R_2R_5g_ms^4 - C_2C}{C_2C_5C_LL_2L_5R_2R_5g_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + C_2C_5C_LL_2L_5R_5s^5 + C_2C_5C_LL_2R_2R_5s^4 + 2C_2C_5L_2L_5R_2g_ms^4 + 4C_2C_5L_2L_5s^4 + 2C_2C_5L_2R_2R_5g_ms^3 + 4C_2C_5L_2R_5s^3 +}$$

10.649 INVALID-ORDER-649 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5R_2R_5R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2R_Ls^5 + C_2C_5C_LL_2L_5R_5R_Ls^5 + C_2C_5C_LL_2R_2R_5R_Ls^4 + C_2C_5L_2L_5R_2R_5g_ms^4 + 2C_2C_5L_2L_5R_2R_Lg_ms^4 + C_2C_5L_2L_5R_2s^4 +}$$

10.650 INVALID-ORDER-650 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5R_2R_5g_ms^5 + 2C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + C_2C_5C_LL_2L_5R_5s^5 + 4C_2C_5C_LL_2L_5R_Ls^5 + 2C_2C_5C_LL_2R_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_2R_5s^4 +}$$

10.651 INVALID-ORDER-651 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{2C_2C_5C_LL_2L_5L_LR_2g_ms^6 + 4C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_2R_5g_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + C_2C_5C_LL_2L_5R_5s^5 + 2C_2C_5C_LL_2L_LR_2R_5g_ms^5 + 4C_2C_5C_LL_2L_LR_5s^5 +$$

10.652 INVALID-ORDER-652 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{C_2C_5C_LL_2L_5L_LR_2R_5g_ms^6 + C_2C_5C_LL_2L_5L_LR_2s^6 + C_2C_5C_LL_2L_5L_LR_5s^6 + C_2C_5C_LL_2L_LR_2R_5s^5 + 2C_2C_5L_2L_5L_LR_2g_ms^5 + 4C_2C_5L_2L_5L_Ls^5 + C_2C_5L_2L_5R_2R_5g_ms^4 +$$

10.653 INVALID-ORDER-653 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{2C_2C_5C_LL_2L_5L_LR_2g_ms^6 + 4C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_2R_5g_ms^5 + 2C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + C_2C_5C_LL_2L_5R_5s^5 + 4C_2C_5C_LL_2L_5R_Ls^5 +$$

10.654 INVALID-ORDER-654 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{C_2C_5C_LL_2L_5L_LR_2R_5R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2R_Ls^6 + C_2C_5C_LL_2L_5L_LR_5R_Ls^6 + C_2C_5C_LL_2L_LR_2R_5R_Ls^5 + C_2C_5L_2L_5L_LR_2R_5g_ms^5 + 2C_2C_5L_2L_5L_LR_2R_Lg_ms^5 +$$

10.655 INVALID-ORDER-655 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{C_2C_5C_LL_2L_5L_LR_2R_5g_ms^6 + 2C_2C_5C_LL_2L_5L_LR_2R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2s^6 + C_2C_5C_LL_2L_5L_LR_5s^6 + 4C_2C_5C_LL_2L_5L_LR_Ls^6 + 2C_2C_5C_LL_2L_LR_2R_5R_Lg_ms^5 + C_2$$

10.656 INVALID-ORDER-656 $Z(s) = \left(\infty,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2R_5g_ms^6 + 2C_2C_5C_LL_2L_5L_LR_2R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2s^6 + C_2C_5C_LL_2L_5L_LR_5s^6 + 4C_2C_5C_LL_2L_5L_LR_Ls^6 + C_2C_5C_LL_2L_5R_2R_5R_Lg_ms^5 + C_2C$$

10.657 INVALID-ORDER-657 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5,\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2L_2R_2R_5g_ms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + C_2R_2R_5s + R_2R_5g_m - R_2 + R_5}{C_2C_LL_2R_2R_5g_ms^3 + C_2C_LL_2R_2s^3 + C_2C_LL_2R_5s^3 + C_2C_LR_2R_5s^2 + 2C_2L_2R_2g_ms^2 + 4C_2L_2s^2 + 4C_2R_2s + C_LR_2R_5g_ms + C_LR_2s + C_LR_5s + 2R_2g_m + 4}$$

10.658 INVALID-ORDER-658 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5,\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(C_2L_2R_2R_5g_ms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + C_2R_2R_5s + R_2R_5g_m - R_2\right.}{C_2C_LL_2R_2R_5R_Lg_ms^3 + C_2C_LL_2R_2R_Ls^3 + C_2C_LL_2R_5R_Ls^3 + C_2C_LR_2R_5R_Ls^2 + C_2L_2R_2R_5g_ms^2 + 2C_2L_2R_2R_Lg_ms^2 + C_2L_2R_2s^2 + C_2L_2R_5s^2 + 4C_2L_2R_Ls^2 + C_2R_2R_5$$

10.659 INVALID-ORDER-659 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5,\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(C_2L_2R_2R_5g_ms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + C_2R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{C_2C_LL_2R_2R_5g_ms^3 + 2C_2C_LL_2R_2R_Lg_ms^3 + C_2C_LL_2R_2s^3 + C_2C_LL_2R_5s^3 + 4C_2C_LL_2R_Ls^3 + C_2C_LR_2R_5s^2 + 4C_2C_LR_2R_Ls^2 + 2C_2L_2R_2g_ms^2 + 4C_2L_2s^2 + 4C_2R_2s + C_L$$

10.660 INVALID-ORDER-660 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5,\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2+1\right)\left(C_2L_2R_2R_5g_ms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + C_2R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{2C_2C_LL_2L_LR_2g_ms^4 + 4C_2C_LL_2L_Ls^4 + C_2C_LL_2R_2R_5g_ms^3 + C_2C_LL_2R_2s^3 + C_2C_LL_2R_5s^3 + 4C_2C_LL_LR_2s^3 + C_2C_LR_2R_5s^2 + 2C_2L_2R_2g_ms^2 + 4C_2L_2s^2 + 4C_2R_2s + 2C_$$

10.661 INVALID-ORDER-661 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5,\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(C_2 L_2 R_2 R_5 g_m s^2 - C_2 L_2 R_2 s^2 + C_2 L_2 R_5 s^2 + C_2 R_2 R_5 s + R_2 R_5 g_m -\right.}{C_2 C_L L_2 L_L R_2 R_5 g_m s^4 + C_2 C_L L_2 L_L R_2 s^4 + C_2 C_L L_2 L_L R_5 s^4 + C_2 C_L L_L R_2 R_5 s^3 + 2 C_2 L_2 L_L R_2 g_m s^3 + 4 C_2 L_2 L_L s^3 + C_2 L_2 R_2 R_5 g_m s^2 + C_2 L_2 R_2 s^2 + C_2 L_2 R_5 s^2 + 4 C_2 L_L R_2}$$

10.662 INVALID-ORDER-662 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5,\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2 + C_L R_L s + 1\right)\left(C_2 L_2 R_2 R_5 g_m s^2 - C_2 L_2 R_2 s^2 +\right.}{2 C_2 C_L L_2 L_L R_2 g_m s^4 + 4 C_2 C_L L_2 L_L s^4 + C_2 C_L L_2 R_2 R_5 g_m s^3 + 2 C_2 C_L L_2 R_2 R_L g_m s^3 + C_2 C_L L_2 R_2 s^3 + C_2 C_L L_2 R_5 s^3 + 4 C_2 C_L L_2 R_L s^3 + 4 C_2 C_L L_L R_2 s^3 + C_2 C_L R_2 R_5 s^2 + 4}$$

10.663 INVALID-ORDER-663 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5,\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2 C_L L_2 L_L R_2 R_5 R_L g_m s^4 + C_2 C_L L_2 L_L R_2 R_L s^4 + C_2 C_L L_2 L_L R_5 R_L s^4 + C_2 C_L L_L R_2 R_5 R_L s^3 + C_2 L_2 L_L R_2 R_5 g_m s^3 + 2 C_2 L_2 L_L R_2 R_L g_m s^3 + C_2 L_2 L_L R_2 s^3 + C_2 L_2 L_L R_5 s^3 +}$$

10.664 INVALID-ORDER-664 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5,\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{}{C_2 C_L L_2 L_L R_2 R_5 g_m s^4 + 2 C_2 C_L L_2 L_L R_2 R_L g_m s^4 + C_2 C_L L_2 L_L R_2 s^4 + C_2 C_L L_2 L_L R_5 s^4 + 4 C_2 C_L L_2 L_L R_L s^4 + C_2 C_L L_L R_2 R_5 s^3 + 4 C_2 C_L L_L R_2 R_L s^3 + 2 C_2 L_2 L_L R_2 g_m s^3 + 4}$$

10.665 INVALID-ORDER-665 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5,\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2 C_L L_2 L_L R_2 R_5 g_m s^4 + 2 C_2 C_L L_2 L_L R_2 R_L g_m s^4 + C_2 C_L L_2 L_L R_2 s^4 + C_2 C_L L_2 L_L R_5 s^4 + 4 C_2 C_L L_2 L_L R_L s^4 + C_2 C_L L_2 R_2 R_5 R_L g_m s^3 + C_2 C_L L_2 R_2 R_L s^3 + C_2 C_L L_2 R_5 R_L s^3}$$

10.666 INVALID-ORDER-666 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s - C_5R_2s + R_2g_m + 1\right)}{2C_2C_5L_2R_2R_Lg_ms^3 + C_2C_5L_2R_2s^3 + 4C_2C_5L_2R_Ls^3 + 4C_2C_5R_2R_Ls^2 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s + 2C_5R_2R_Lg_ms + C_5R_2s + 4C_5R_Ls + R_2g_m + 1}$$

10.667 INVALID-ORDER-667 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s - C_5R_2s + R_2g_m + 1}{s\left(C_2C_5C_LL_2R_2s^3 + 2C_2C_5L_2R_2g_ms^2 + 4C_2C_5L_2s^2 + 4C_2C_5R_2s + C_2C_LL_2R_2g_ms^2 + C_2C_LL_2s^2 + C_2C_LR_2s + C_5C_LR_2s + 2C_5R_2g_m + 4C_5 + C_LR_2g_m + C_L\right)}$$

10.668 INVALID-ORDER-668 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{R_L}{C_LR_Ls+1}\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s - C_5R_2s + R_2g_m\right.}{C_2C_5C_LL_2R_2R_Ls^4 + 2C_2C_5L_2R_2R_Lg_ms^3 + C_2C_5L_2R_2s^3 + 4C_2C_5L_2R_Ls^3 + 4C_2C_5R_2R_Ls^2 + C_2C_LL_2R_2R_Lg_ms^3 + C_2C_LL_2R_Ls^3 + C_2C_LR_2R_Ls^2 + C_2L_2R_2g_ms^2 + C_2L$$

10.669 INVALID-ORDER-669 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(-C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s - C_5R_2s + R_2g_m +\right.}{s\left(2C_2C_5C_LL_2R_2R_Lg_ms^3 + C_2C_5C_LL_2R_2s^3 + 4C_2C_5C_LL_2R_Ls^3 + 4C_2C_5C_LR_2R_Ls^2 + 2C_2C_5L_2R_2g_ms^2 + 4C_2C_5L_2s^2 + 4C_2C_5R_2s + C_2C_LL_2R_2g_ms^2 + C_2C_LL_2s^2 + C_2C\right.}$$

10.670 INVALID-ORDER-670 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ L_Ls+\frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2+1\right)\left(-C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s - C_5R_2s + R_2g_m\right.}{s\left(2C_2C_5C_LL_2L_LR_2g_ms^4 + 4C_2C_5C_LL_2L_Ls^4 + C_2C_5C_LL_2R_2s^3 + 4C_2C_5C_LL_LR_2s^3 + 2C_2C_5L_2R_2g_ms^2 + 4C_2C_5L_2s^2 + 4C_2C_5R_2s + C_2C_LL_2R_2g_ms^2 + C_2C_LL_2s^2 + C_2C\right.}$$

10.671 INVALID-ORDER-671 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(-C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s - C_5R_2s + R_2g\right.}{C_2C_5C_LL_2L_LR_2s^5 + 2C_2C_5L_2L_LR_2g_ms^4 + 4C_2C_5L_2L_Ls^4 + C_2C_5L_2R_2s^3 + 4C_2C_5L_LR_2s^3 + C_2C_LL_2L_LR_2g_ms^4 + C_2C_LL_2L_Ls^4 + C_2C_LL_LR_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2}$$

10.672 INVALID-ORDER-672 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2 + C_LR_Ls + 1\right)\left(-C_2C_5L_2R_2s\right.}{s\left(2C_2C_5C_LL_2L_LR_2g_ms^4 + 4C_2C_5C_LL_2L_Ls^4 + 2C_2C_5C_LL_2R_2R_Lg_ms^3 + C_2C_5C_LL_2R_2s^3 + 4C_2C_5C_LL_2R_Ls^3 + 4C_2C_5C_LL_LR_2s^3 + 4C_2C_5C_LR_2R_Ls^2 + 2C_2C_5L_2R_2g_ms^2\right.}$$

10.673 INVALID-ORDER-673 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_LR_2R_Ls^5 + 2C_2C_5L_2L_LR_2R_Lg_ms^4 + C_2C_5L_2L_LR_2s^4 + 4C_2C_5L_2L_LR_Ls^4 + C_2C_5L_2R_2R_Ls^3 + 4C_2C_5L_LR_2R_Ls^3 + C_2C_LL_2L_LR_2R_Lg_ms^4 + C_2C_LL_2L_LR_Ls^4}$$

10.674 INVALID-ORDER-674 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2L_LR_2R_Lg_ms^5 + C_2C_5C_LL_2L_LR_2s^5 + 4C_2C_5C_LL_2L_LR_Ls^5 + 4C_2C_5C_LL_LR_2R_Ls^4 + 2C_2C_5L_2L_LR_2g_ms^4 + 4C_2C_5L_2L_Ls^4 + 2C_2C_5L_2R_2R_Lg_ms^3 + C_2C_5L_2R_2}$$

10.675 INVALID-ORDER-675 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2L_LR_2R_Lg_ms^5 + C_2C_5C_LL_2L_LR_2s^5 + 4C_2C_5C_LL_2L_LR_Ls^5 + C_2C_5C_LL_2R_2R_Ls^4 + 4C_2C_5C_LL_LR_2R_Ls^4 + 2C_2C_5L_2R_2R_Lg_ms^3 + C_2C_5L_2R_2s^3 + 4C_2C_5L_2R_L}$$

10.676 INVALID-ORDER-676 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2R_2R_5s^3 + C_2L_2R_2R_5g_ms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + C_2R_2R_5s - C_5R_2R_5\right.}{2C_2C_5L_2R_2R_5R_Lg_ms^3 + C_2C_5L_2R_2R_5s^3 + 4C_2C_5L_2R_5R_Ls^3 + 4C_2C_5R_2R_5R_Ls^2 + C_2L_2R_2R_5g_ms^2 + 2C_2L_2R_2R_Lg_ms^2 + C_2L_2R_2s^2 + C_2L_2R_5s^2 + 4C_2L_2R_Ls^2 + C_2R_2R$$

10.677 INVALID-ORDER-677 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2C_5L_2R_2R_5s^3 + C_2L_2R_2R_5g_ms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + C_2R_2R_5s - C_5R_2R_5s}{C_2C_5C_LL_2R_2R_5s^4 + 2C_2C_5L_2R_2R_5g_ms^3 + 4C_2C_5L_2R_5s^3 + 4C_2C_5R_2R_5s^2 + C_2C_LL_2R_2R_5g_ms^3 + C_2C_LL_2R_2s^3 + C_2C_LL_2R_5s^3 + C_2C_LR_2R_5s^2 + 2C_2L_2R_2g_ms^2 + 4C_2L$$

10.678 INVALID-ORDER-678 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(}{C_2C_5C_LL_2R_2R_5R_Ls^4 + 2C_2C_5L_2R_2R_5R_Lg_ms^3 + C_2C_5L_2R_2R_5s^3 + 4C_2C_5L_2R_5R_Ls^3 + 4C_2C_5R_2R_5R_Ls^2 + C_2C_LL_2R_2R_5R_Lg_ms^3 + C_2C_LL_2R_2R_Ls^3 + C_2C_LL_2R_5R_Ls^3$$

10.679 INVALID-ORDER-679 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2R_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_2R_5s^4 + 4C_2C_5C_LL_2R_5R_Ls^4 + 4C_2C_5C_LR_2R_5R_Ls^3 + 2C_2C_5L_2R_2R_5g_ms^3 + 4C_2C_5L_2R_5s^3 + 4C_2C_5R_2R_5s^2 + C_2C_LL_2R_2R_5g_ms$$

10.680 INVALID-ORDER-680 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ L_L s+\frac{1}{C_L s}\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2L_LR_2R_5g_ms^5 + 4C_2C_5C_LL_2L_LR_5s^5 + C_2C_5C_LL_2R_2R_5s^4 + 4C_2C_5C_LL_LR_2R_5s^4 + 2C_2C_5L_2R_2R_5g_ms^3 + 4C_2C_5L_2R_5s^3 + 4C_2C_5R_2R_5s^2 + 2C_2C_LL_2L_LR_2g_m$$

10.681 INVALID-ORDER-681 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L}{C_2C_5C_LL_2L_LR_2R_5s^5 + 2C_2C_5L_2L_LR_2R_5g_ms^4 + 4C_2C_5L_2L_LR_5s^4 + C_2C_5L_2R_2R_5s^3 + 4C_2C_5L_LR_2R_5s^3 + C_2C_LL_2L_LR_2R_5g_ms^4 + C_2C_LL_2L_LR_2s^4 + C_2C_LL_2L_LR_5s^4 +}$$

10.682 INVALID-ORDER-682 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2L_LR_2R_5g_ms^5 + 4C_2C_5C_LL_2L_LR_5s^5 + 2C_2C_5C_LL_2R_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_2R_5s^4 + 4C_2C_5C_LL_2R_5R_Ls^4 + 4C_2C_5C_LL_LR_2R_5s^4 + 4C_2C_5C_LR_2R_5R_Ls^3 +}$$

10.683 INVALID-ORDER-683 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_LR_2R_5R_Ls^5 + 2C_2C_5L_2L_LR_2R_5R_Lg_ms^4 + C_2C_5L_2L_LR_2R_5s^4 + 4C_2C_5L_2L_LR_5R_Ls^4 + C_2C_5L_2R_2R_5R_Ls^3 + 4C_2C_5L_LR_2R_5R_Ls^3 + C_2C_LL_2L_LR_2R_5R_Lg_ms^4}$$

10.684 INVALID-ORDER-684 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2L_LR_2R_5R_Lg_ms^5 + C_2C_5C_LL_2L_LR_2R_5s^5 + 4C_2C_5C_LL_2L_LR_5R_Ls^5 + 4C_2C_5C_LL_LR_2R_5R_Ls^4 + 2C_2C_5L_2L_LR_2R_5g_ms^4 + 4C_2C_5L_2L_LR_5s^4 + 2C_2C_5L_2R_2R_5R}$$

10.685 INVALID-ORDER-685 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2L_LR_2R_5R_Lg_ms^5 + C_2C_5C_LL_2L_LR_2R_5s^5 + 4C_2C_5C_LL_2L_LR_5R_Ls^5 + C_2C_5C_LL_2R_2R_5R_Ls^4 + 4C_2C_5C_LL_LR_2R_5R_Ls^4 + 2C_2C_5L_2R_2R_5R_Lg_ms^3 + C_2C_5L_2R_2}$$

10.686 INVALID-ORDER-686 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2R_2R_5g_ms^3 - C_2C_5L_2R_2s^3 + C_2C_5L_2R_5s^3 + C_2C_5R_2R_5s^2 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s + C_5R_2R_5g_ms - C_5R_2s\right.}{C_2C_5L_2R_2R_5g_ms^3 + 2C_2C_5L_2R_2R_Lg_ms^3 + C_2C_5L_2R_2s^3 + C_2C_5L_2R_5s^3 + 4C_2C_5L_2R_Ls^3 + C_2C_5R_2R_5s^2 + 4C_2C_5R_2R_Ls^2 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s + C_5R_2R_5}$$

10.687 INVALID-ORDER-687 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2R_2R_5g_ms^3 - C_2C_5L_2R_2s^3 + C_2C_5L_2R_5s^3 + C_2C_5R_2R_5s^2 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s + C_5R_2R_5g_ms -}{s\left(C_2C_5C_LL_2R_2R_5g_ms^3 + C_2C_5C_LL_2R_2s^3 + C_2C_5C_LL_2R_5s^3 + C_2C_5C_LR_2R_5s^2 + 2C_2C_5L_2R_2g_ms^2 + 4C_2C_5L_2s^2 + 4C_2C_5R_2s + C_2C_LL_2R_2g_ms^2 + C_2C_LL_2s^2 + C_2C_LR_\right.}$$

10.688 INVALID-ORDER-688 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2R_2-\right.}{C_2C_5C_LL_2R_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_2R_Ls^4 + C_2C_5C_LL_2R_5R_Ls^4 + C_2C_5C_LR_2R_5R_Ls^3 + C_2C_5L_2R_2R_5g_ms^3 + 2C_2C_5L_2R_2R_Lg_ms^3 + C_2C_5L_2R_2s^3 + C_2C_5L_2R_5s^3 + 4}$$

10.689 INVALID-ORDER-689 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(C_2C_5L_2R_2R_5g_ms^3 - C_2C_5L_2R_2s^3 + C_2C_5L_2R_5s^3 + C_2C_5R_2-\right.}{s\left(C_2C_5C_LL_2R_2R_5g_ms^3 + 2C_2C_5C_LL_2R_2R_Lg_ms^3 + C_2C_5C_LL_2R_2s^3 + C_2C_5C_LL_2R_5s^3 + 4C_2C_5C_LL_2R_Ls^3 + C_2C_5C_LR_2R_5s^2 + 4C_2C_5C_LR_2R_Ls^2 + 2C_2C_5L_2R_2g_ms^2 + 4\right.}$$

10.690 INVALID-ORDER-690 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ L_Ls+\frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2+1\right)\left(C_2C_5L_2R_2R_5g_ms^3 - C_2C_5L_2R_2s^3 + C_2C_5L_2R_5s^3 + C_2C_5R\right.}{s\left(2C_2C_5C_LL_2L_LR_2g_ms^4 + 4C_2C_5C_LL_2L_Ls^4 + C_2C_5C_LL_2R_2R_5g_ms^3 + C_2C_5C_LL_2R_2s^3 + C_2C_5C_LL_2R_5s^3 + 4C_2C_5C_LL_LR_2s^3 + C_2C_5C_LR_2R_5s^2 + 2C_2C_5L_2R_2g_ms^2 + 4\right.}$$

10.691 INVALID-ORDER-691 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(C_2 C_5 L_2 R_2\right.}{C_2C_5C_LL_2L_LR_2R_5g_ms^5 + C_2C_5C_LL_2L_LR_2s^5 + C_2C_5C_LL_2L_LR_5s^5 + C_2C_5C_LL_LR_2R_5s^4 + 2C_2C_5L_2L_LR_2g_ms^4 + 4C_2C_5L_2L_Ls^4 + C_2C_5L_2R_2R_5g_ms^3 + C_2C_5L_2R_2s^3 + C}$$

10.692 INVALID-ORDER-692 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ L_L s+R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2+C_L R_L s+1\right)\left(C_2 C_5\right.}{s\left(2C_2C_5C_LL_2L_LR_2g_ms^4 + 4C_2C_5C_LL_2L_Ls^4 + C_2C_5C_LL_2R_2R_5g_ms^3 + 2C_2C_5C_LL_2R_2R_Lg_ms^3 + C_2C_5C_LL_2R_2s^3 + C_2C_5C_LL_2R_5s^3 + 4C_2C_5C_LL_2R_Ls^3 + 4C_2C_5C_LL_LR\right.}$$

10.693 INVALID-ORDER-693 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_LR_2R_5R_Lg_ms^5 + C_2C_5C_LL_2L_LR_2R_Ls^5 + C_2C_5C_LL_2L_LR_5R_Ls^5 + C_2C_5C_LL_LR_2R_5R_Ls^4 + C_2C_5L_2L_LR_2R_5g_ms^4 + 2C_2C_5L_2L_LR_2R_Lg_ms^4 + C_2C_5L_2L_LR_2s}$$

10.694 INVALID-ORDER-694 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}+R_L\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_LR_2R_5g_ms^5 + 2C_2C_5C_LL_2L_LR_2R_Lg_ms^5 + C_2C_5C_LL_2L_LR_2s^5 + C_2C_5C_LL_2L_LR_5s^5 + 4C_2C_5C_LL_2L_LR_Ls^5 + C_2C_5C_LL_LR_2R_5s^4 + 4C_2C_5C_LL_LR_2R_Ls^4 + 2C}$$

10.695 INVALID-ORDER-695 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ R_5+\frac{1}{C_5 s},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_LR_2R_5g_ms^5 + 2C_2C_5C_LL_2L_LR_2R_Lg_ms^5 + C_2C_5C_LL_2L_LR_2s^5 + C_2C_5C_LL_2L_LR_5s^5 + 4C_2C_5C_LL_2L_LR_Ls^5 + C_2C_5C_LL_2R_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_2R_Ls^4 +}$$

10.696 INVALID-ORDER-696 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 - C_2C_5L_2R_2s^3 + C_2C_5L_5R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s\right.}{C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 + 2C_2C_5L_2R_2R_Lg_ms^3 + C_2C_5L_2R_2s^3 + 4C_2C_5L_2R_Ls^3 + C_2C_5L_5R_2s^3 + 4C_2C_5R_2R_Ls^2 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s + C_5L_5R_2g}$$

10.697 INVALID-ORDER-697 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 - C_2C_5L_2R_2s^3 + C_2C_5L_5R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s + C_5L_5R_2g_ms^2 +}{s\left(C_2C_5C_LL_2L_5R_2g_ms^4 + C_2C_5C_LL_2L_5s^4 + C_2C_5C_LL_2R_2s^3 + C_2C_5C_LL_5R_2s^3 + 2C_2C_5L_2R_2g_ms^2 + 4C_2C_5L_2s^2 + 4C_2C_5R_2s + C_2C_LL_2R_2g_ms^2 + C_2C_LL_2s^2 + C_2C_LR_2\right.}$$

10.698 INVALID-ORDER-698 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ \frac{R_L}{C_LR_Ls+1}\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2L_5R\right.}{C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_Ls^5 + C_2C_5C_LL_2R_2R_Ls^4 + C_2C_5C_LL_5R_2R_Ls^4 + C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 + 2C_2C_5L_2R_2R_Lg_ms^3 + C_2C_5L_2R_2s^3 + 4C}$$

10.699 INVALID-ORDER-699 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 - C_2C_5L_2R_2s^3 + C_2C_5L_5\right.}{s\left(C_2C_5C_LL_2L_5R_2g_ms^4 + C_2C_5C_LL_2L_5s^4 + 2C_2C_5C_LL_2R_2R_Lg_ms^3 + C_2C_5C_LL_2R_2s^3 + 4C_2C_5C_LL_2R_Ls^3 + C_2C_5C_LL_5R_2s^3 + 4C_2C_5C_LR_2R_Ls^2 + 2C_2C_5L_2R_2g_ms^2 + 4\right.}$$

10.700 INVALID-ORDER-700 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ L_L s+\frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2+1\right)\left(C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 - C_2C_5L_2R_2s^3 + C_2C_5L_5\right.}{s\left(C_2C_5C_LL_2L_5R_2g_ms^4 + C_2C_5C_LL_2L_5s^4 + 2C_2C_5C_LL_2L_LR_2g_ms^4 + 4C_2C_5C_LL_2L_Ls^4 + C_2C_5C_LL_2R_2s^3 + C_2C_5C_LL_5R_2s^3 + 4C_2C_5C_LL_LR_2s^3 + 2C_2C_5L_2R_2g_ms^2 + 4\right.}$$

10.701 INVALID-ORDER-701 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s\left(C_2 C_5 L_2 L_5\right.}{C_2C_5C_LL_2L_5L_LR_2g_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_LR_2s^5 + C_2C_5C_LL_5L_LR_2s^5 + C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 + 2C_2C_5L_2L_LR_2g_ms^4 + 4C_2C_5L_2L_Ls^4 + C}$$

10.702 INVALID-ORDER-702 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ L_L s+R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_L L_L s^2+C_L R_L s+1\right)\left(C_2 C_5\right.}{s\left(C_2C_5C_LL_2L_5R_2g_ms^4 + C_2C_5C_LL_2L_5s^4 + 2C_2C_5C_LL_2L_LR_2g_ms^4 + 4C_2C_5C_LL_2L_Ls^4 + 2C_2C_5C_LL_2R_2R_Lg_ms^3 + C_2C_5C_LL_2R_2s^3 + 4C_2C_5C_LL_2R_Ls^3 + C_2C_5C_LL_5R_2s\right.}$$

10.703 INVALID-ORDER-703 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_Ls^6 + C_2C_5C_LL_2L_LR_2R_Ls^5 + C_2C_5C_LL_5L_LR_2R_Ls^5 + C_2C_5L_2L_5L_LR_2g_ms^5 + C_2C_5L_2L_5L_Ls^5 + C_2C_5L_2L_5R_2R_Lg_ms^4 +}$$

10.704 INVALID-ORDER-704 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}+R_L\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2g_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + 2C_2C_5C_LL_2L_LR_2R_Lg_ms^5 + C_2C_5C_LL_2L_LR_2s^5 + 4C_2C_5C_LL_2L_LR_Ls^5 + C_2C_5C_LL_5L_LR_2s^5 + 4C_2C_5C_LL_LR_2R_Ls^4 + C_2}$$

10.705 INVALID-ORDER-705 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+\frac{1}{C_5 s},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2g_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_Ls^5 + 2C_2C_5C_LL_2L_LR_2R_Lg_ms^5 + C_2C_5C_LL_2L_LR_2s^5 + 4C_2C_5C_LL_2L_LR_Ls^5 +}$$

10.706 INVALID-ORDER-706 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2L_5R_2s^4 + C_2L_2L_5R_2g_ms^3 + C_2L_2L_5s^3 - C_2L_2R_2s^2 + C_2L_5R_2s^2 - C_5L_5R_2\right.}{2C_2C_5L_2L_5R_2R_Lg_ms^4 + C_2C_5L_2L_5R_2s^4 + 4C_2C_5L_2L_5R_Ls^4 + 4C_2C_5L_5R_2R_Ls^3 + C_2L_2L_5R_2g_ms^3 + C_2L_2L_5s^3 + 2C_2L_2R_2R_Lg_ms^2 + C_2L_2R_2s^2 + 4C_2L_2R_Ls^2 + C_2L_5R_2$$

10.707 INVALID-ORDER-707 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2C_5L_2L_5R_2s^4 + C_2L_2L_5R_2g_ms^3 + C_2L_2L_5s^3 - C_2L_2R_2s^2 + C_2L_5R_2s^2 - C_5L_5R_2s^2}{C_2C_5C_LL_2L_5R_2s^5 + 2C_2C_5L_2L_5R_2g_ms^4 + 4C_2C_5L_2L_5s^4 + 4C_2C_5L_5R_2s^3 + C_2C_LL_2L_5R_2g_ms^4 + C_2C_LL_2L_5s^4 + C_2C_LL_2R_2s^3 + C_2C_LL_5R_2s^3 + 2C_2L_2R_2g_ms^2 + 4C_2L_2$$

10.708 INVALID-ORDER-708 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{R_L}{C_2C_5C_LL_2L_5R_2R_Ls^5 + 2C_2C_5L_2L_5R_2R_Lg_ms^4 + C_2C_5L_2L_5R_2s^4 + 4C_2C_5L_2L_5R_Ls^4 + 4C_2C_5L_5R_2R_Ls^3 + C_2C_LL_2L_5R_2R_Lg_ms^4 + C_2C_LL_2L_5R_Ls^4 + C_2C_LL_2R_2R_Ls^3 +$$

10.709 INVALID-ORDER-709 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + 4C_2C_5C_LL_2L_5R_Ls^5 + 4C_2C_5C_LL_5R_2R_Ls^4 + 2C_2C_5L_2L_5R_2g_ms^4 + 4C_2C_5L_2L_5s^4 + 4C_2C_5L_5R_2s^3 + C_2C_LL_2L_5R_2g_ms^4}$$

10.710 INVALID-ORDER-710 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ L_L s+\frac{1}{C_L s}\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2L_5L_LR_2g_ms^6 + 4C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_2s^5 + 4C_2C_5C_LL_5L_LR_2s^5 + 2C_2C_5L_2L_5R_2g_ms^4 + 4C_2C_5L_2L_5s^4 + 4C_2C_5L_5R_2s^3 + C_2C_LL_2L_5R_2g_ms^4}$$

10.711 INVALID-ORDER-711 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{L_L s}{C_2C_5C_LL_2L_5L_LR_2s^6 + 2C_2C_5L_2L_5L_LR_2g_ms^5 + 4C_2C_5L_2L_5L_Ls^5 + C_2C_5L_2L_5R_2s^4 + 4C_2C_5L_5L_LR_2s^4 + C_2C_LL_2L_5L_LR_2g_ms^5 + C_2C_LL_2L_5L_Ls^5 + C_2C_LL_2L_LR_2s^4 + C$$

10.712 INVALID-ORDER-712 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2L_5L_LR_2g_ms^6 + 4C_2C_5C_LL_2L_5L_Ls^6 + 2C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + 4C_2C_5C_LL_2L_5R_Ls^5 + 4C_2C_5C_LL_5L_LR_2s^5 + 4C_2C_5C_LL_5R_2R_Ls^4 + 2$$

10.713 INVALID-ORDER-713 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2R_Ls^6 + 2C_2C_5L_2L_5L_LR_2R_Lg_ms^5 + C_2C_5L_2L_5L_LR_2s^5 + 4C_2C_5L_2L_5L_LR_Ls^5 + C_2C_5L_2L_5R_2R_Ls^4 + 4C_2C_5L_5L_LR_2R_Ls^4 + C_2C_LL_2L_5L_LR_2R_Lg_ms^5 -$$

10.714 INVALID-ORDER-714 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2L_5L_LR_2R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2s^6 + 4C_2C_5C_LL_2L_5L_LR_Ls^6 + 4C_2C_5C_LL_5L_LR_2R_Ls^5 + 2C_2C_5L_2L_5L_LR_2g_ms^5 + 4C_2C_5L_2L_5L_Ls^5 + 2C_2C_5L_2L_5R_2R_L$$

10.715 INVALID-ORDER-715 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2L_5L_LR_2R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2s^6 + 4C_2C_5C_LL_2L_5L_LR_Ls^6 + C_2C_5C_LL_2L_5R_2R_Ls^5 + 4C_2C_5C_LL_5L_LR_2R_Ls^5 + 2C_2C_5L_2L_5R_2R_Lg_ms^4 + C_2C_5L_2L_5R_2$$

10.716 INVALID-ORDER-716 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ R_L\right)$

$$H(s) = \frac{R_L \left(C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 + C_2C_5L_2R_2R_5g_ms^3 - C_2C_5L_2R_2s^3 + C_2C_5L_2R_5s^3 + C_2C_5L_5R_2s^3 + C_2C_5R_2R_5s^2 + C_2L_2}{C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 + C_2C_5L_2R_2R_5g_ms^3 + 2C_2C_5L_2R_2R_Lg_ms^3 + C_2C_5L_2R_2s^3 + C_2C_5L_2R_5s^3 + 4C_2C_5L_2R_Ls^3 + C_2C_5L_5R_2s^3 + C_2C_5R_2R_5s^2 + 4C_2C_5R_2}$$

10.717 INVALID-ORDER-717 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 + C_2C_5L_2R_2R_5g_ms^3 - C_2C_5L_2R_2s^3 + C_2C_5L_2R_5s^3 + C_2C_5L_5R_2s^3 + C_2C_5}{s\left(C_2C_5C_LL_2L_5R_2g_ms^4 + C_2C_5C_LL_2L_5s^4 + C_2C_5C_LL_2R_2R_5g_ms^3 + C_2C_5C_LL_2R_2s^3 + C_2C_5C_LL_2R_5s^3 + C_2C_5C_LL_5R_2s^3 + C_2C_5C_LR_2R_5s^2 + 2C_2C_5L_2R_2g_ms^2 + 4C_2C_5\right.}$$

10.718 INVALID-ORDER-718 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_Ls^5 + C_2C_5C_LL_2R_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_2R_Ls^4 + C_2C_5C_LL_2R_5R_Ls^4 + C_2C_5C_LL_5R_2R_Ls^4 + C_2C_5C_LR_2R_5R_Ls^3 + C_2C_5}$$

10.719 INVALID-ORDER-719 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{(C_LR_Ls+1)\left(C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 + C_2C_5L_2R_2R_5g_ms\right.}{s\left(C_2C_5C_LL_2L_5R_2g_ms^4 + C_2C_5C_LL_2L_5s^4 + C_2C_5C_LL_2R_2R_5g_ms^3 + 2C_2C_5C_LL_2R_2R_Lg_ms^3 + C_2C_5C_LL_2R_2s^3 + C_2C_5C_LL_2R_5s^3 + 4C_2C_5C_LL_2R_Ls^3 + C_2C_5C_LL_5R_2s^3 + \right.}$$

10.720 INVALID-ORDER-720 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2+1\right)\left(C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 + C_2C_5L_2R_2R_5g_m\right.}{s\left(C_2C_5C_LL_2L_5R_2g_ms^4 + C_2C_5C_LL_2L_5s^4 + 2C_2C_5C_LL_2L_LR_2g_ms^4 + 4C_2C_5C_LL_2L_Ls^4 + C_2C_5C_LL_2R_2R_5g_ms^3 + C_2C_5C_LL_2R_2s^3 + C_2C_5C_LL_2R_5s^3 + C_2C_5C_LL_5R_2s^3 + \right.}$$

10.721 INVALID-ORDER-721 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+R_5+\frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2g_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_LR_2R_5g_ms^5 + C_2C_5C_LL_2L_LR_2s^5 + C_2C_5C_LL_2L_LR_5s^5 + C_2C_5C_LL_5L_LR_2s^5 + C_2C_5C_LL_LR_2R_5s^4 + C_2C_5L_}$$

10.722 INVALID-ORDER-722 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+R_5+\frac{1}{C_5 s},\ L_L s+R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{\left(C_LL_Ls^2 + C_LR_Ls + 1\right.}{s\left(C_2C_5C_LL_2L_5R_2g_ms^4 + C_2C_5C_LL_2L_5s^4 + 2C_2C_5C_LL_2L_LR_2g_ms^4 + 4C_2C_5C_LL_2L_Ls^4 + C_2C_5C_LL_2R_2R_5g_ms^3 + 2C_2C_5C_LL_2R_2R_Lg_ms^3 + C_2C_5C_LL_2R_2s^3 + C_2C_5C_LL_}$$

10.723 INVALID-ORDER-723 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+R_5+\frac{1}{C_5 s},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_Ls^6 + C_2C_5C_LL_2L_LR_2R_5R_Lg_ms^5 + C_2C_5C_LL_2L_LR_2R_Ls^5 + C_2C_5C_LL_2L_LR_5R_Ls^5 + C_2C_5C_LL_5L_LR_2R_Ls^5 + C_2C_5C_LL_}$$

10.724 INVALID-ORDER-724 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+R_5+\frac{1}{C_5 s},\ \frac{L_L s}{C_L L_L s^2+1}+R_L\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2g_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_LR_2R_5g_ms^5 + 2C_2C_5C_LL_2L_LR_2R_Lg_ms^5 + C_2C_5C_LL_2L_LR_2s^5 + C_2C_5C_LL_2L_LR_5s^5 + 4C_2C_5C_LL_2L_LR_Ls^5 +}$$

10.725 INVALID-ORDER-725 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ L_5 s+R_5+\frac{1}{C_5 s},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2g_ms^6 + C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_Ls^5 + C_2C_5C_LL_2L_LR_2R_5g_ms^5 + 2C_2C_5C_LL_2L_LR_2R_Lg_ms^5 + C_2C_5C_LL_2L_LR_2}$$

10.726 INVALID-ORDER-726 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ R_L\right)$

$$H(s) = \frac{R_L\left(-C_2C_5L_2L_5R_2R_5s^4 + C_2L_2L\right.}{2C_2C_5L_2L_5R_2R_5R_Lg_ms^4 + C_2C_5L_2L_5R_2R_5s^4 + 4C_2C_5L_2L_5R_5R_Ls^4 + 4C_2C_5L_5R_2R_5R_Ls^3 + C_2L_2L_5R_2R_5g_ms^3 + 2C_2L_2L_5R_2R_Lg_ms^3 + C_2L_2L_5R_2s^3 + C_2L_2L_5R_5s^3 +}$$

10.727 INVALID-ORDER-727 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{-C_2C_5L_2L_5R_2R_5s^4 + C_2L_2L_5R_2R}{C_2C_5C_LL_2L_5R_2R_5s^5 + 2C_2C_5L_2L_5R_2R_5g_ms^4 + 4C_2C_5L_2L_5R_5s^4 + 4C_2C_5L_5R_2R_5s^3 + C_2C_LL_2L_5R_2R_5g_ms^4 + C_2C_LL_2L_5R_2s^4 + C_2C_LL_2L_5R_5s^4 + C_2C_LL_2R_2R_5s^3 + C}$$

10.728 INVALID-ORDER-728 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5R_2R_5R_Ls^5 + 2C_2C_5L_2L_5R_2R_5R_Lg_ms^4 + C_2C_5L_2L_5R_2R_5s^4 + 4C_2C_5L_2L_5R_5R_Ls^4 + 4C_2C_5L_5R_2R_5R_Ls^3 + C_2C_LL_2L_5R_2R_5R_Lg_ms^4 + C_2C_LL_2L_5R_2R_Ls^4 +}$$

10.729 INVALID-ORDER-729 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ R_L+\frac{1}{C_L s}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5R_2R_5R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2R_5s^5 + 4C_2C_5C_LL_2L_5R_5R_Ls^5 + 4C_2C_5C_LL_5R_2R_5R_Ls^4 + 2C_2C_5L_2L_5R_2R_5g_ms^4 + 4C_2C_5L_2L_5R_5s^4 + 4C_2C_5L_5R_2R_5s^3}$$

10.730 INVALID-ORDER-730 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ L_L s+\frac{1}{C_L s}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5L_LR_2R_5g_ms^6 + 4C_2C_5C_LL_2L_5L_LR_5s^6 + C_2C_5C_LL_2L_5R_2R_5s^5 + 4C_2C_5C_LL_5L_LR_2R_5s^5 + 2C_2C_5L_2L_5R_2R_5g_ms^4 + 4C_2C_5L_2L_5R_5s^4 + 4C_2C_5L_5R_2R_5s^3}$$

10.731 INVALID-ORDER-731 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2R_5s^6 + 2C_2C_5L_2L_5L_LR_2R_5g_ms^5 + 4C_2C_5L_2L_5L_LR_5s^5 + C_2C_5L_2L_5R_2R_5s^4 + 4C_2C_5L_5L_LR_2R_5s^4 + C_2C_LL_2L_5L_LR_2R_5g_ms^5 + C_2C_LL_2L_5L_LR_2s^5 +$$

10.732 INVALID-ORDER-732 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5L_LR_2R_5g_ms^6 + 4C_2C_5C_LL_2L_5L_LR_5s^6 + 2C_2C_5C_LL_2L_5R_2R_5R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2R_5s^5 + 4C_2C_5C_LL_2L_5R_5R_Ls^5 + 4C_2C_5C_LL_5L_LR_2R_5s^5 + 4C_2C$$

10.733 INVALID-ORDER-733 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2R_5R_Ls^6 + 2C_2C_5L_2L_5L_LR_2R_5R_Lg_ms^5 + C_2C_5L_2L_5L_LR_2R_5s^5 + 4C_2C_5L_2L_5L_LR_5R_Ls^5 + C_2C_5L_2L_5R_2R_5R_Ls^4 + 4C_2C_5L_5L_LR_2R_5R_Ls^4 + C_2C_LL_2L$$

10.734 INVALID-ORDER-734 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5L_LR_2R_5R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2R_5s^6 + 4C_2C_5C_LL_2L_5L_LR_5R_Ls^6 + 4C_2C_5C_LL_5L_LR_2R_5R_Ls^5 + 2C_2C_5L_2L_5L_LR_2R_5g_ms^5 + 4C_2C_5L_2L_5L_LR_5s^5 +$$

10.735 INVALID-ORDER-735 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{1}{C_5 s+\frac{1}{R_5}+\frac{1}{L_5 s}},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = -\frac{}{2C_2C_5C_LL_2L_5L_LR_2R_5R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2R_5s^6 + 4C_2C_5C_LL_2L_5L_LR_5R_Ls^6 + C_2C_5C_LL_2L_5R_2R_5R_Ls^5 + 4C_2C_5C_LL_5L_LR_2R_5R_Ls^5 + 2C_2C_5L_2L_5R_2R_5R_Lg_m$$

10.736 INVALID-ORDER-736 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1}+R_5,\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2L_5R_2R_5g_ms^4 - C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_5s^4 + C_2C_5L_5R_2R_5s^3 + C_2L_2\right.}{C_2C_5L_2L_5R_2R_5g_ms^4 + 2C_2C_5L_2L_5R_2R_Lg_ms^4 + C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_5s^4 + 4C_2C_5L_2L_5R_Ls^4 + C_2C_5L_5R_2R_5s^3 + 4C_2C_5L_5R_2R_Ls^3 + C_2L_2L_5R_2g_ms^3 + C_2L_2L_5}$$

10.737 INVALID-ORDER-737 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1}+R_5,\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2L_5R_2R_5g_ms^4 - C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_5s^4 + C_2C_5L_5F}{C_2C_5C_LL_2L_5R_2R_5g_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + C_2C_5C_LL_2L_5R_5s^5 + C_2C_5C_LL_5R_2R_5s^4 + 2C_2C_5L_2L_5R_2g_ms^4 + 4C_2C_5L_2L_5s^4 + 4C_2C_5L_5R_2s^3 + C_2C_LL_2L_5R_2g_ms^4 + C}$$

10.738 INVALID-ORDER-738 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1}+R_5,\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5R_2R_5R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2R_Ls^5 + C_2C_5C_LL_2L_5R_5R_Ls^5 + C_2C_5C_LL_5R_2R_5R_Ls^4 + C_2C_5L_2L_5R_2R_5g_ms^4 + 2C_2C_5L_2L_5R_2R_Lg_ms^4 + C_2C_5L_2L_5R_2s^4 +}$$

10.739 INVALID-ORDER-739 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1}+R_5,\ R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5R_2R_5g_ms^5 + 2C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + C_2C_5C_LL_2L_5R_5s^5 + 4C_2C_5C_LL_2L_5R_Ls^5 + C_2C_5C_LL_5R_2R_5s^4 + 4C_2C_5C_LL_5R_2R_Ls^4 + 2C_2C}$$

10.740 INVALID-ORDER-740 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1}+R_5,\ L_L s+\frac{1}{C_L s}\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2L_5L_LR_2g_ms^6 + 4C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_2R_5g_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + C_2C_5C_LL_2L_5R_5s^5 + 4C_2C_5C_LL_5L_LR_2s^5 + C_2C_5C_LL_5R_2R_5s^4 + 2C_2C}$$

10.741 INVALID-ORDER-741 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1}+R_5,\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{C_2C_5C_LL_2L_5L_LR_2R_5g_ms^6 + C_2C_5C_LL_2L_5L_LR_2s^6 + C_2C_5C_LL_2L_5L_LR_5s^6 + C_2C_5C_LL_5L_LR_2R_5s^5 + 2C_2C_5L_2L_5L_LR_2g_ms^5 + 4C_2C_5L_2L_5L_Ls^5 + C_2C_5L_2L_5R_2R_5g_ms^4 +}{}$$

10.742 INVALID-ORDER-742 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1}+R_5,\ L_L s+R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{2C_2C_5C_LL_2L_5L_LR_2g_ms^6 + 4C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_2R_5g_ms^5 + 2C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + C_2C_5C_LL_2L_5R_5s^5 + 4C_2C_5C_LL_2L_5R_Ls^5 +}{}$$

10.743 INVALID-ORDER-743 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1}+R_5,\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{C_2C_5C_LL_2L_5L_LR_2R_5R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2R_Ls^6 + C_2C_5C_LL_2L_5L_LR_5R_Ls^6 + C_2C_5C_LL_5L_LR_2R_5R_Ls^5 + C_2C_5L_2L_5L_LR_2R_5g_ms^5 + 2C_2C_5L_2L_5L_LR_2R_Lg_ms^5 +}{}$$

10.744 INVALID-ORDER-744 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1}+R_5,\ \frac{L_L s}{C_L L_L s^2+1}+R_L\right)$

$$H(s) = \frac{C_2C_5C_LL_2L_5L_LR_2R_5g_ms^6 + 2C_2C_5C_LL_2L_5L_LR_2R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2s^6 + C_2C_5C_LL_2L_5L_LR_5s^6 + 4C_2C_5C_LL_2L_5L_LR_Ls^6 + C_2C_5C_LL_5L_LR_2R_5s^5 + 4C_2C_5C_L}{}$$

10.745 INVALID-ORDER-745 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1}+R_5,\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = \frac{C_2C_5C_LL_2L_5L_LR_2R_5g_ms^6 + 2C_2C_5C_LL_2L_5L_LR_2R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2s^6 + C_2C_5C_LL_2L_5L_LR_5s^6 + 4C_2C_5C_LL_2L_5L_LR_Ls^6 + C_2C_5C_LL_2L_5R_2R_5R_Lg_ms^5 + C_2C}{}$$

10.746 INVALID-ORDER-746 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ R_L\right)$

$$H(s) = \frac{R_L\left(C_2C_5L_2L_5R_2R_5g_ms^4 - C_2C_5L_2L_5\right.}{C_2C_5L_2L_5R_2R_5g_ms^4 + 2C_2C_5L_2L_5R_2R_Lg_ms^4 + C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_5s^4 + 4C_2C_5L_2L_5R_Ls^4 + 2C_2C_5L_2R_2R_5R_Lg_ms^3 + C_2C_5L_2R_2R_5s^3 + 4C_2C_5L_2R_5R_Ls^3 +}$$

10.747 INVALID-ORDER-747 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_5L_2L_5R_2R_5g_ms^4 - C_2C_5L_2L}{C_2C_5C_LL_2L_5R_2R_5g_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + C_2C_5C_LL_2L_5R_5s^5 + C_2C_5C_LL_2R_2R_5s^4 + C_2C_5C_LL_5R_2R_5s^4 + 2C_2C_5L_2L_5R_2g_ms^4 + 4C_2C_5L_2L_5s^4 + 2C_2C_5L_2R_2R_5g_ms}$$

10.748 INVALID-ORDER-748 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{R_L}{C_L R_L s+1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5R_2R_5R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2R_Ls^5 + C_2C_5C_LL_2L_5R_5R_Ls^5 + C_2C_5C_LL_2R_2R_5R_Ls^4 + C_2C_5C_LL_5R_2R_5R_Ls^4 + C_2C_5L_2L_5R_2R_5g_ms^4 + 2C_2C_5L_2L_5R_2R_L}$$

10.749 INVALID-ORDER-749 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ R_L+\frac{1}{C_L s}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5R_2R_5g_ms^5 + 2C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + C_2C_5C_LL_2L_5R_5s^5 + 4C_2C_5C_LL_2L_5R_Ls^5 + 2C_2C_5C_LL_2R_2R_5R_Lg_ms^4 + C_2C_5C_LL_2R_2R_5s^4 +}$$

10.750 INVALID-ORDER-750 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ L_L s+\frac{1}{C_L s}\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2L_5L_LR_2g_ms^6 + 4C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_2R_5g_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + C_2C_5C_LL_2L_5R_5s^5 + 2C_2C_5C_LL_2L_LR_2R_5g_ms^5 + 4C_2C_5C_LL_2L_LR_5s^5 +}$$

10.751 INVALID-ORDER-751 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{L_L s}{C_L L_L s^2+1}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2R_5g_ms^6 + C_2C_5C_LL_2L_5L_LR_2s^6 + C_2C_5C_LL_2L_5L_LR_5s^6 + C_2C_5C_LL_2L_LR_2R_5s^5 + C_2C_5C_LL_5L_LR_2R_5s^5 + 2C_2C_5L_2L_5L_LR_2g_ms^5 + 4C_2C_5L_2L_5L_Ls^5}$$

10.752 INVALID-ORDER-752 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{}{2C_2C_5C_LL_2L_5L_LR_2g_ms^6 + 4C_2C_5C_LL_2L_5L_Ls^6 + C_2C_5C_LL_2L_5R_2R_5g_ms^5 + 2C_2C_5C_LL_2L_5R_2R_Lg_ms^5 + C_2C_5C_LL_2L_5R_2s^5 + C_2C_5C_LL_2L_5R_5s^5 + 4C_2C_5C_LL_2L_5R_Ls^5 +}$$

10.753 INVALID-ORDER-753 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{1}{C_L s+\frac{1}{R_L}+\frac{1}{L_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2R_5R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2R_Ls^6 + C_2C_5C_LL_2L_5L_LR_5R_Ls^6 + C_2C_5C_LL_2L_LR_2R_5R_Ls^5 + C_2C_5C_LL_5L_LR_2R_5R_Ls^5 + C_2C_5L_2L_5L_LR_2R_5g_ms^5 +}$$

10.754 INVALID-ORDER-754 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{L_L s}{C_L L_L s^2+1} + R_L\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2R_5g_ms^6 + 2C_2C_5C_LL_2L_5L_LR_2R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2s^6 + C_2C_5C_LL_2L_5L_LR_5s^6 + 4C_2C_5C_LL_2L_5L_LR_Ls^6 + 2C_2C_5C_LL_2L_LR_2R_5R_Lg_ms^5 + C_2}$$

10.755 INVALID-ORDER-755 $Z(s) = \left(\infty,\ \frac{R_2\left(L_2 s+\frac{1}{C_2 s}\right)}{L_2 s+R_2+\frac{1}{C_2 s}},\ \infty,\ \infty,\ \frac{R_5\left(L_5 s+\frac{1}{C_5 s}\right)}{L_5 s+R_5+\frac{1}{C_5 s}},\ \frac{R_L\left(L_L s+\frac{1}{C_L s}\right)}{L_L s+R_L+\frac{1}{C_L s}}\right)$

$$H(s) = \frac{}{C_2C_5C_LL_2L_5L_LR_2R_5g_ms^6 + 2C_2C_5C_LL_2L_5L_LR_2R_Lg_ms^6 + C_2C_5C_LL_2L_5L_LR_2s^6 + C_2C_5C_LL_2L_5L_LR_5s^6 + 4C_2C_5C_LL_2L_5L_LR_Ls^6 + C_2C_5C_LL_2L_5R_2R_5R_Lg_ms^5 + C_2C}$$