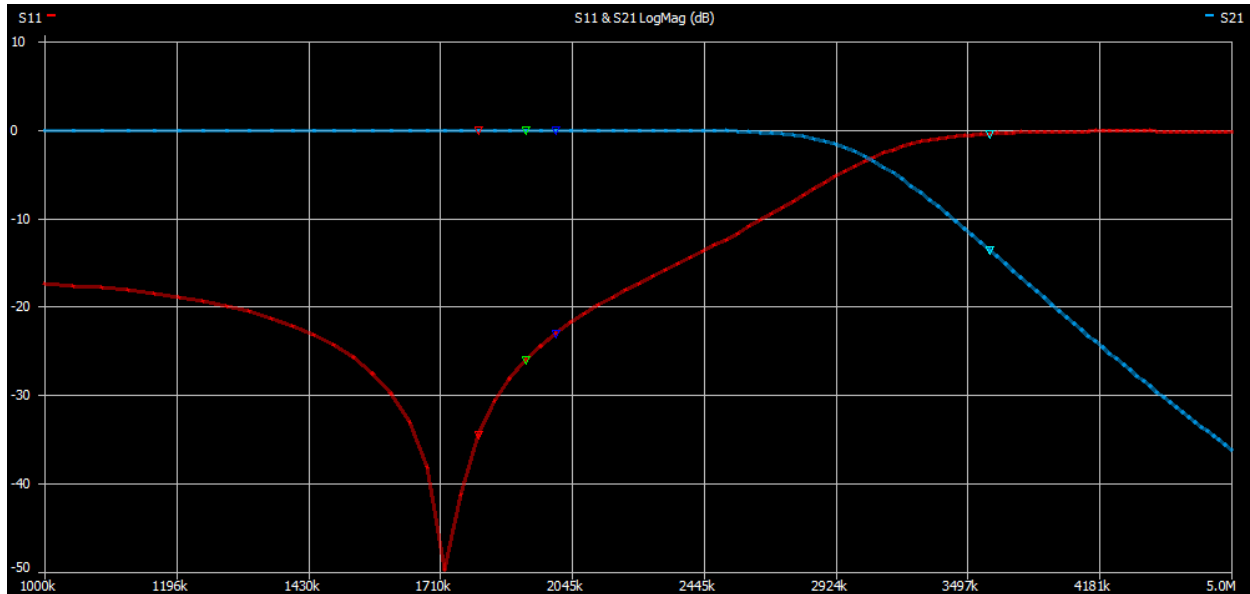


160m



Marker 1

Frequency:	1.80000 MHz	VSWR:	1.038
Impedance:	49.7+j1.85 Ω	Return loss:	-34.478 dB
Series L:	163.73 nH	Quality factor:	0.037
Series C:	-47.749 nF	S11 Phase:	99.28°
Parallel R:	49.731 Ω	S21 Gain:	-0.092 dB
Parallel X:	117.93 μ H	S21 Phase:	176.23°

Marker 3

Frequency:	2.00000 MHz	VSWR:	1.152
Impedance:	52+j6.96 Ω	Return loss:	-23.006 dB
Series L:	553.53 nH	Quality factor:	0.134
Series C:	-11.44 nF	S11 Phase:	70.25°
Parallel R:	52.906 Ω	S21 Gain:	-0.074 dB
Parallel X:	31.458 μ H	S21 Phase:	153.07°

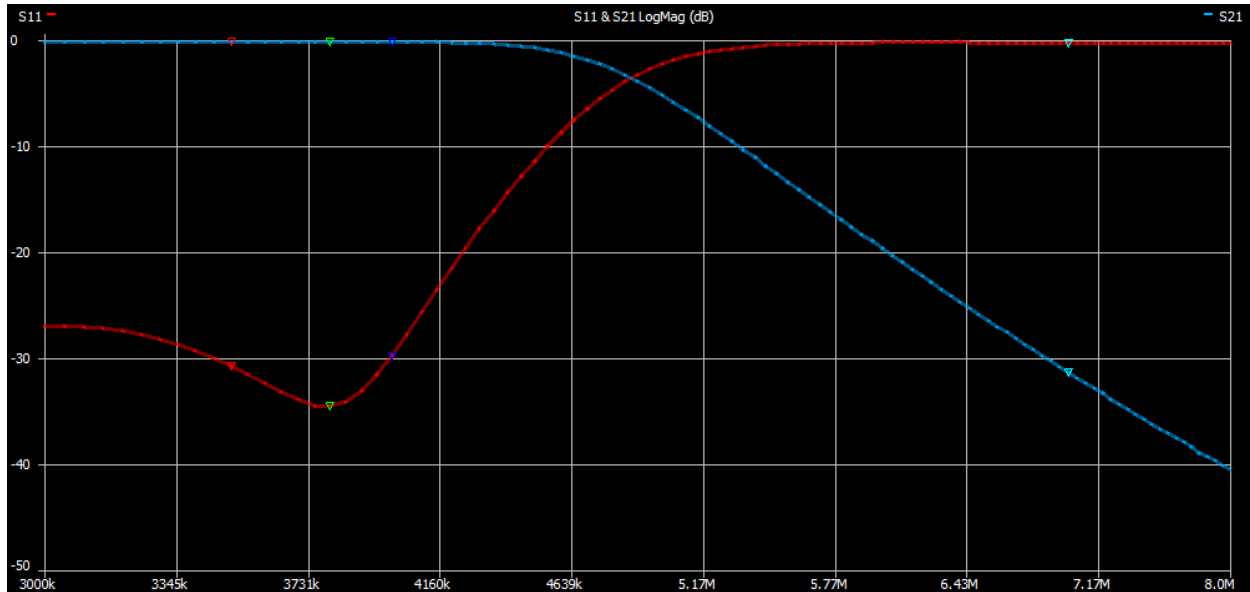
Marker 2

Frequency:	1.92000 MHz	VSWR:	1.105
Impedance:	50.6+j4.99 Ω	Return loss:	-26.035 dB
Series L:	413.87 nH	Quality factor:	0.099
Series C:	-16.603 nF	S11 Phase:	80.48°
Parallel R:	51.077 Ω	S21 Gain:	-0.084 dB
Parallel X:	42.897 μ H	S21 Phase:	162.49°

Marker 4

Frequency:	3.60000 MHz	VSWR:	44.221
Impedance:	1.13-j242m Ω	Return loss:	-0.393 dB
Series L:	-10.683 nH	Quality factor:	0.214
Series C:	182.95 nF	S11 Phase:	-179.45°
Parallel R:	1.1824 Ω	S21 Gain:	-13.548 dB
Parallel X:	7.9913 nF	S21 Phase:	-89.29°

80m



Marker 1

Frequency: 3.50000 MHz	VSWR: 1.060
Impedance: 52.3+j1.93 Ω	Return loss: -30.740 dB
Series L: 87.866 nH	Quality factor: 0.037
Series C: -23.533 nF	S11 Phase: 39.50°
Parallel R: 52.327 Ω	S21 Gain: -0.098 dB
Parallel X: 64.349 μH	S21 Phase: 108.20°

Marker 3

Frequency: 4.00000 MHz	VSWR: 1.068
Impedance: 52.7-j2.04 Ω	Return loss: -29.717 dB
Series L: -81.337 nH	Quality factor: 0.039
Series C: 19.464 nF	S11 Phase: -36.40°
Parallel R: 52.739 Ω	S21 Gain: -0.137 dB
Parallel X: 29.287 pF	S21 Phase: 61.20°

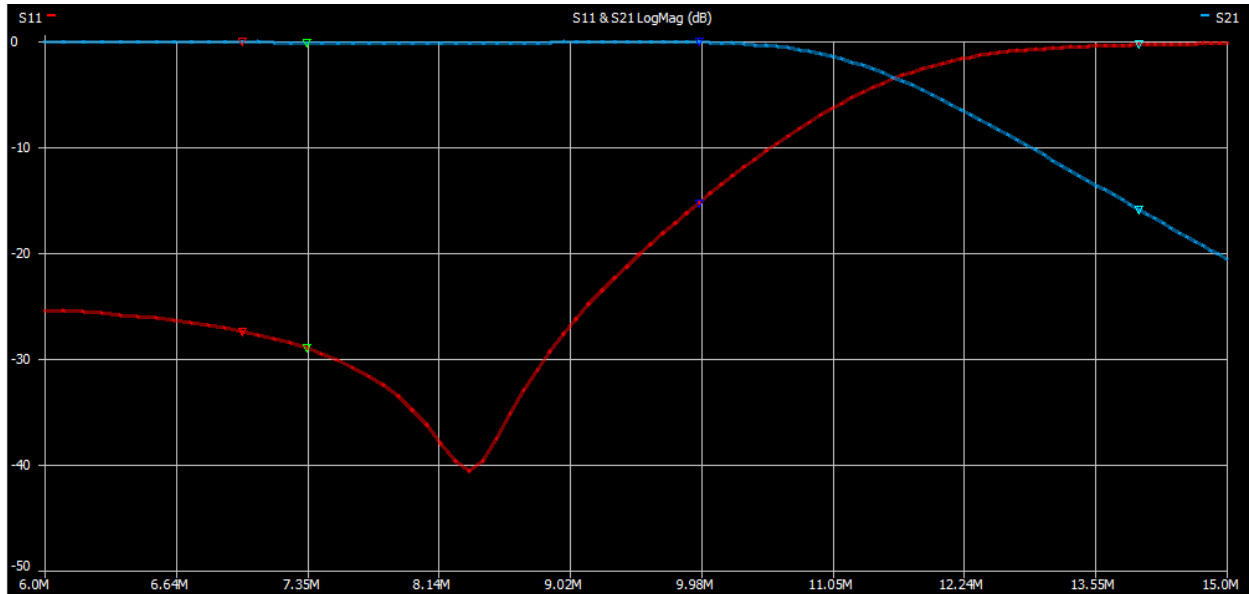
Marker 2

Frequency: 3.80000 MHz	VSWR: 1.038
Impedance: 51.9+j156m Ω	Return loss: -34.491 dB
Series L: 6.5143 nH	Quality factor: 0.003
Series C: -269.28 nF	S11 Phase: 4.56°
Parallel R: 51.916 Ω	S21 Gain: -0.122 dB
Parallel X: 725.78 μH	S21 Phase: 80.93°

Marker 4

Frequency: 7.00000 MHz	VSWR: 78.337
Impedance: 1.81+j67.8 Ω	Return loss: -0.222 dB
Series L: 1.5426 μH	Quality factor: 37.4
Series C: -335.11 pF	S11 Phase: 72.75°
Parallel R: 2.5394 kΩ	S21 Gain: -31.330 dB
Parallel X: 1.5437 μH	S21 Phase: 178.25°

40m + 30m (capacitive input)



Marker 1

Frequency: 6.99000 MHz
 Impedance: $53.3-j2.9 \Omega$
 Series L: -66.09 nH
 Series C: 7.8442 nF
 Parallel R: 53.469Ω
 Parallel X: 23.186 pF

VSWR: 1.089
 Return loss: -27.411 dB
 Quality factor: 0.054
 S11 Phase: -39.63°
 S21 Gain: -0.052 dB
 S21 Phase: 165.37°

Marker 3

Frequency: 9.96000 MHz
 Impedance: $69.5+j6.59 \Omega$
 Series L: 105.29 nH
 Series C: -2.4251 nF
 Parallel R: 70.112Ω
 Parallel X: $11.815 \mu\text{H}$

VSWR: 1.415
 Return loss: -15.295 dB
 Quality factor: 0.095
 S11 Phase: 15.53°
 S21 Gain: -0.051 dB
 S21 Phase: 58.01°

Marker 2

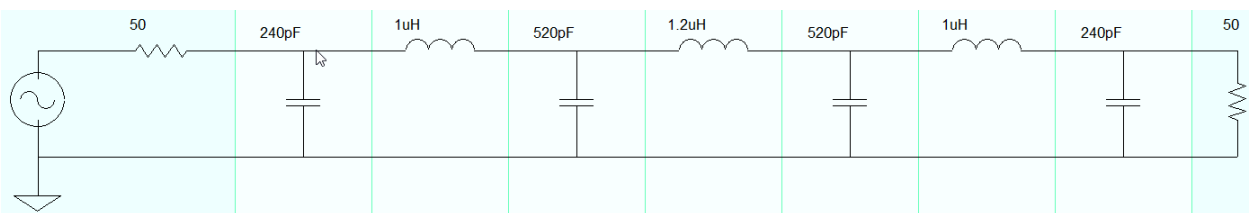
Frequency: 7.35000 MHz
 Impedance: $52-j3.01 \Omega$
 Series L: -65.204 nH
 Series C: 7.191 nF
 Parallel R: 52.201Ω
 Parallel X: 24.009 pF

VSWR: 1.074
 Return loss: -28.981 dB
 Quality factor: 0.058
 S11 Phase: -54.37°
 S21 Gain: -0.074 dB
 S21 Phase: 154.03°

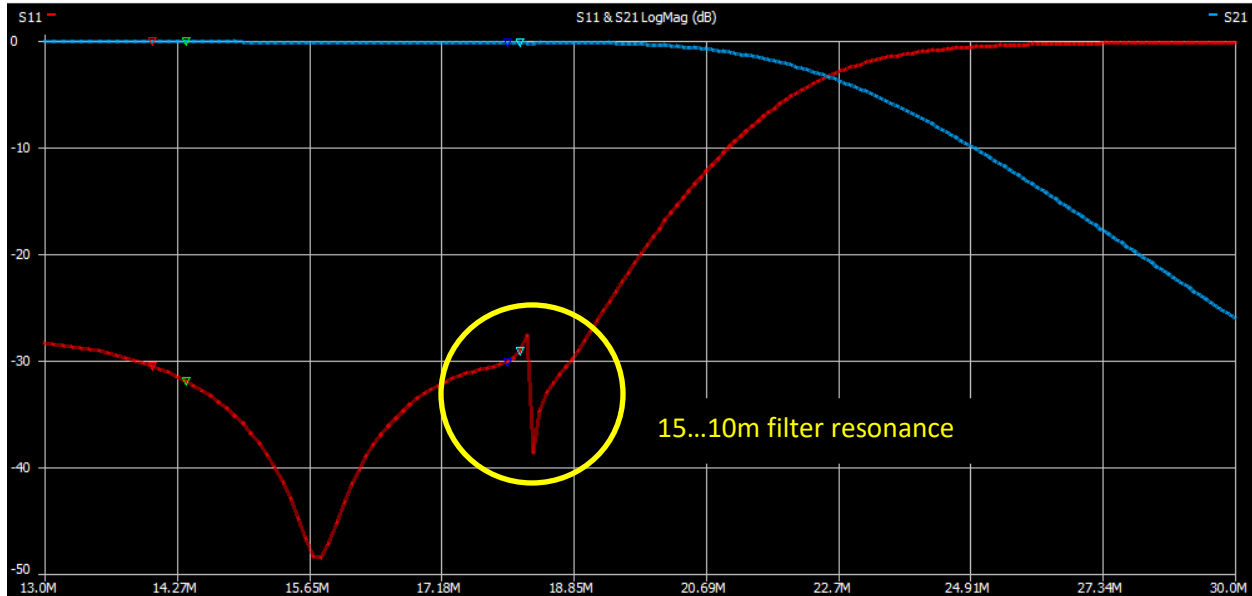
Marker 4

Frequency: 14.0100 MHz
 Impedance: $818m+j6.09 \Omega$
 Series L: 69.155 nH
 Series C: -1.8661 nF
 Parallel R: 46.117Ω
 Parallel X: 70.403 nH

VSWR: 62.026
 Return loss: -0.280 dB
 Quality factor: 7.441
 S11 Phase: 166.11°
 S21 Gain: -15.872 dB
 S21 Phase: -110.10°



20m + 17m



Marker 1

Frequency: 14.0149 MHz
 Impedance: $52.5 + j1.78 \Omega$
 Series L: 20.181 nH
 Series C: -6.3903 nF
 Parallel R: 52.545Ω
 Parallel X: 17.623 μ H

VSWR: 1.061
 Return loss: -30.514 dB
 Quality factor: 0.034
 S11 Phase: 34.57°
 S21 Gain: -0.041 dB
 S21 Phase: 135.45°

Marker 3

Frequency: 17.9900 MHz
 Impedance: $49.9 + j3.1 \Omega$
 Series L: 27.438 nH
 Series C: -2.8525 nF
 Parallel R: 50.084Ω
 Parallel X: 7.1274 μ H

VSWR: 1.064
 Return loss: -30.158 dB
 Quality factor: 0.062
 S11 Phase: 90.24°
 S21 Gain: -0.074 dB
 S21 Phase: 56.88°

Marker 2

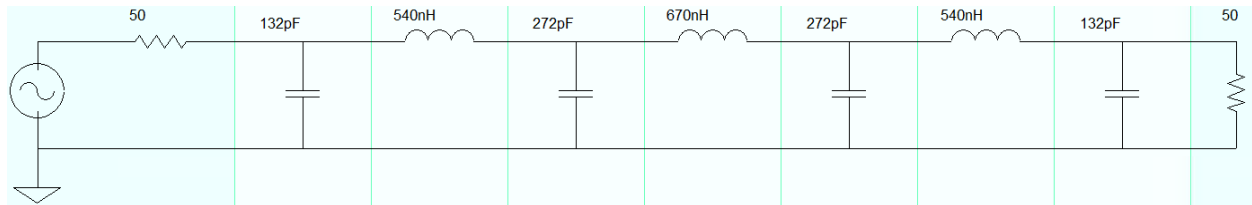
Frequency: 14.3532 MHz
 Impedance: $52.2 + j1.33 \Omega$
 Series L: 14.699 nH
 Series C: -8.3648 nF
 Parallel R: 52.277Ω
 Parallel X: 22.845 μ H

VSWR: 1.052
 Return loss: -31.875 dB
 Quality factor: 0.025
 S11 Phase: 29.84°
 S21 Gain: -0.051 dB
 S21 Phase: 129.29°

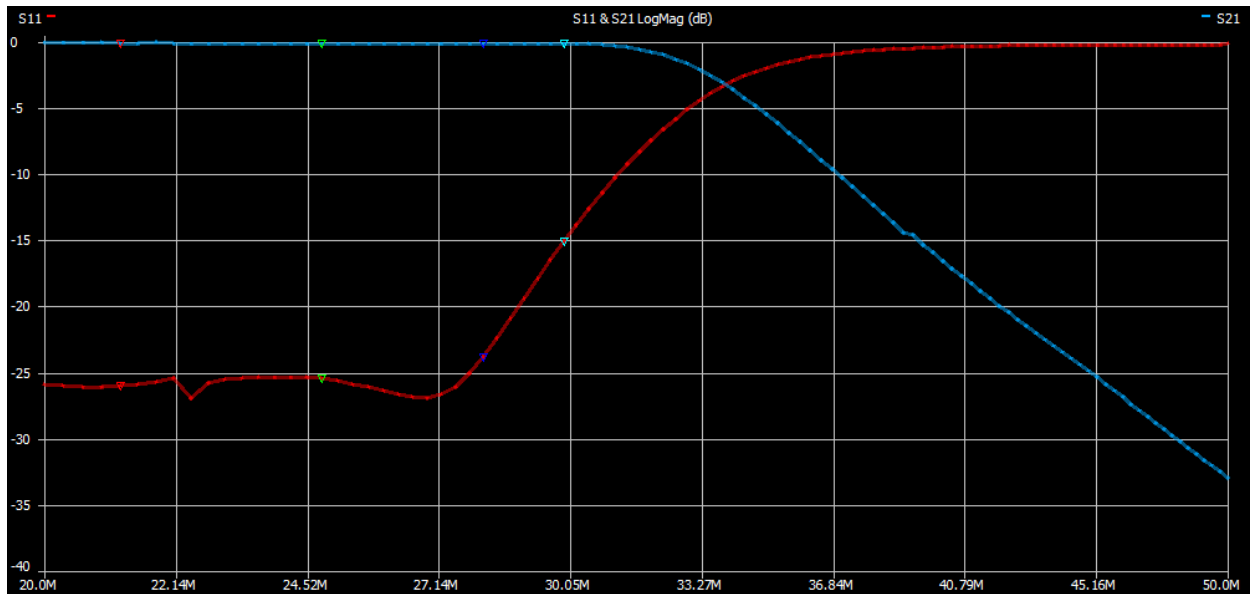
Marker 4

Frequency: 18.1592 MHz
 Impedance: $51 + j3.44 \Omega$
 Series L: 30.147 nH
 Series C: -2.548 nF
 Parallel R: 51.185Ω
 Parallel X: 6.6453 μ H

VSWR: 1.073
 Return loss: -29.036 dB
 Quality factor: 0.068
 S11 Phase: 72.57°
 S21 Gain: -0.096 dB
 S21 Phase: 52.73°



15 – 12 – 10m



m + 12m + 10m

Marker 1

Frequency: 21.2000 MHz	VSWR: 1.106
Impedance: 48.6+j4.75 Ω	Return loss: -25.981 dB
Series L: 35.656 nH	Quality factor: 0.098
Series C: -1.5807 nF	S11 Phase: 103.88°
Parallel R: 49.045 Ω	S21 Gain: -0.048 dB
Parallel X: 3.7661 μ H	S21 Phase: 137.47°

Marker 3

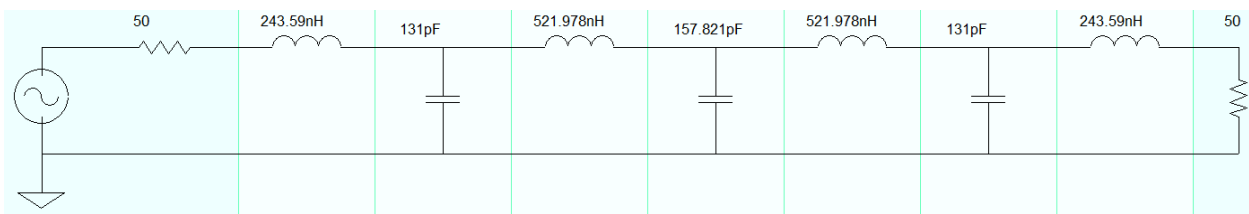
Frequency: 28.1000 MHz	VSWR: 1.138
Impedance: 46.8+j5.4 Ω	Return loss: -23.810 dB
Series L: 30.599 nH	Quality factor: 0.115
Series C: -1.0484 nF	S11 Phase: 117.08°
Parallel R: 47.47 Ω	S21 Gain: -0.093 dB
Parallel X: 2.3314 μ H	S21 Phase: 48.66°

Marker 2

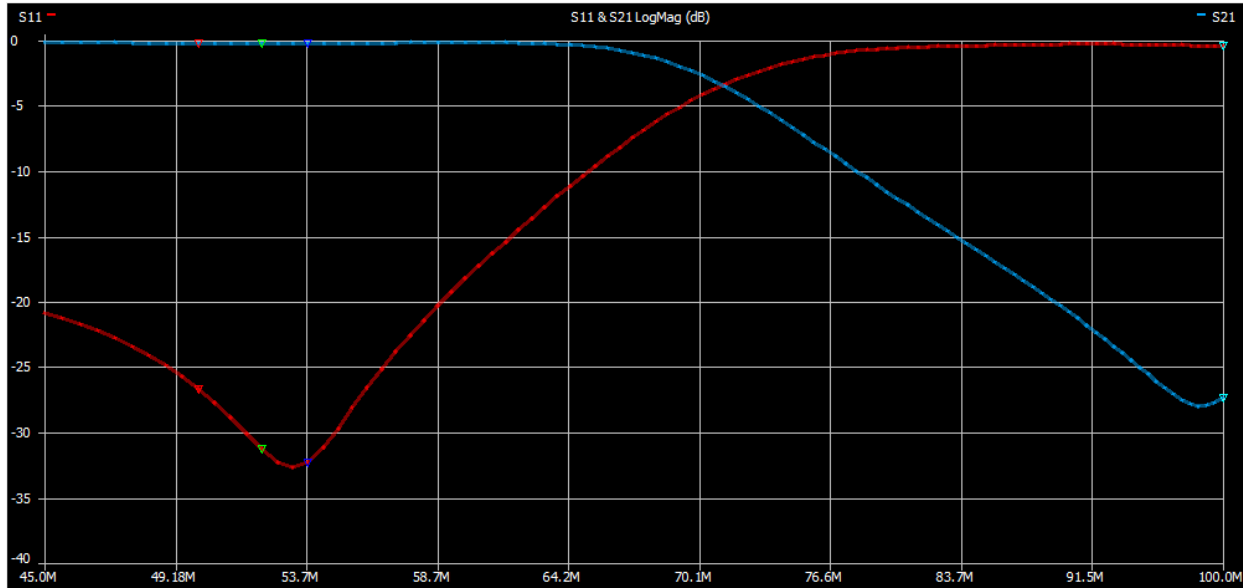
Frequency: 24.8000 MHz	VSWR: 1.113
Impedance: 50.3+j5.35 Ω	Return loss: -25.452 dB
Series L: 34.356 nH	Quality factor: 0.106
Series C: -1.1988 nF	S11 Phase: 83.40°
Parallel R: 50.901 Ω	S21 Gain: -0.068 dB
Parallel X: 3.0712 μ H	S21 Phase: 93.47°

Marker 4

Frequency: 29.9000 MHz	VSWR: 1.426
Impedance: 41+j13.4 Ω	Return loss: -15.106 dB
Series L: 71.551 nH	Quality factor: 0.328
Series C: -395.99 pF	S11 Phase: 115.34°
Parallel R: 45.427 Ω	S21 Gain: -0.087 dB
Parallel X: 737.94 nH	S21 Phase: 19.79°



6m new



Marker 1

Frequency: 49.9500 MHz	VSWR: 1.098
Impedance: 45.9+j1.83 Ω	Return loss: -26.646 dB
Series L: 5.8457 nH	Quality factor: 0.04
Series C: -1.7367 nF	S11 Phase: 154.64°
Parallel R: 46.003 Ω	S21 Gain: -0.177 dB
Parallel X: 3.6696 μ H	S21 Phase: 78.55°

Marker 3

Frequency: 53.8000 MHz	VSWR: 1.050
Impedance: 47.9-j1.15 Ω	Return loss: -32.278 dB
Series L: -3.4135 nH	Quality factor: 0.024
Series C: 2.5637 nF	S11 Phase: -150.35°
Parallel R: 47.944 Ω	S21 Gain: -0.194 dB
Parallel X: 1.4859 pF	S21 Phase: 53.29°

Marker 2

Frequency: 52.1500 MHz	VSWR: 1.056
Impedance: 47.4+j459m Ω	Return loss: -31.273 dB
Series L: 1.3994 nH	Quality factor: 0.01
Series C: -6.6558 nF	S11 Phase: 169.80°
Parallel R: 47.385 Ω	S21 Gain: -0.194 dB
Parallel X: 14.943 μ H	S21 Phase: 64.27°

Marker 4

Frequency: 100.000 MHz	VSWR: 44.585
Impedance: 19.4+j201 Ω	Return loss: -0.390 dB
Series L: 319.94 nH	Quality factor: 10.36
Series C: -7.9173 pF	S11 Phase: 27.70°
Parallel R: 2.1016 k Ω	S21 Gain: -27.319 dB
Parallel X: 322.92 nH	S21 Phase: 149.93°

