LC Filters Design Tool

More info (/lc-filter/description.html)

Filter Properties

Response

Bandpass ▼

Type

Chebyshev ▼

Topology

Conventional, Shunt First ▼

Order

2 ▼

Lower Cutoff Frequency

400   MHz ▼

Upper Cutoff Frequency

500   MHz ▼

Passband Ripple (dB)

.1

Input Impedance (Ω)

50

Output Impedance (Ω)

36

Additional Settings

Component Values

Exact ▼

Compute   Reset (/lc-filter/)

2nd Order Modified Chebyshev Bandpass
Lower Cutoff Freq. = 400.0 MHz; Upper Cutoff Freq. = 500.0 MHz
Passband Ripple = 0.1 dB

RS
50.00 Ω

C2
2.387 pF

L2
53.07 nH

C1
12.53 pF

L1
10.11 nH

RL
36.00 Ω

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| Insertion Loss and Return Loss | Phase and Group Delay | S-Parameters |

-80

-40

300M   400M   500M   600M   700M   800M   900M

Frequency (Hz)

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