Micro Miniature Band Pass Filters

RLC Electronics' Micro Miniature Band-Pass Filters offer excellent frequency response characteristics with low insertion loss. The small size capability is provided by utilization of miniaturized high Q devices in a microstrip mode. Standard units utilize low ripple, Chebychev design. Other responses are available when desired.

Specifications

MBP-1-2-3-4

Model Number	Center Frequency Range (MHz)	3 dB Bandwidth (% of fc)	Number of Sections	Stopband Attenuation
MBP	10 to 500	2 to 70%	2 to 8	See Curves on page 89
	500 to 2500	2 to 50%		
	2500 to 12,400	2 to 25%		

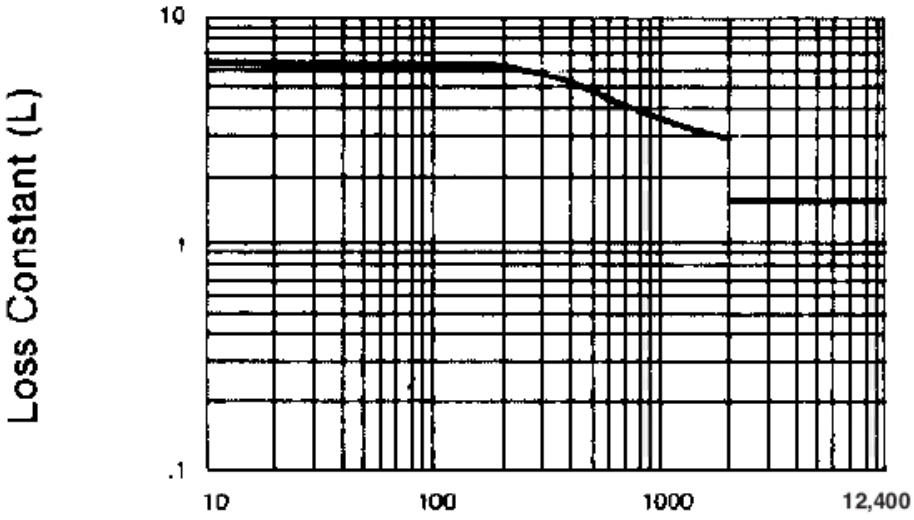
VSWR: 1.5:1, Bandwidth: Curve 1,see page 89
Passband Insertion Loss (max at fc): See chart below
Power Rating: 2 Watts
0.5 dB Bandwidth: Curve 2 on page 89
1 dB Bandwidth: Curve 3 on page 89
Connectors: SMA Female, tabs or pins
Impedance: 50 Ohms
Phase Linearity: 5 deg. Curve 4 on page 89
Spurious: None to 2.8 x fc or 18 GHz whichever is less
Environmental: MIL-E-5400, Class 1A

To designate the filter desired use:

1: Center Frequency in MHz
2: 3dB bandwidth in MHz
3: Number of Sections
4: Outline configurations: PB,TP,T8S,CB,RR,RA, CR,T8,PR (see page 93 for dimensions).

Example: MBP-500-4-RA is a 500MHz center frequency 50 MHz 3 dB bandwidth, 4 section, Micro Miniature Band Pass Filter with outline per configuration RA

$$\text{Insertion Loss} = \frac{\text{Lx (number of sections } +.5)}{\text{\% of 3dB bandwidth}} + 0.2\text{dB}$$



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