

Surface Mount Band Pass Filters



RLC Electronics' surface mount filters offer the same excellent frequency response characteristics as our existing MBP micro miniature filters. Units capable of

withstanding automated soldering temperatures can also be supplied, if required. The packages shown are not recommended for frequency above 4.0 GHz.

Specifications

MBP¹⁻²⁻³⁻⁴

MODEL No.	CENTER FREQUENCY RANGE (MHz)	3 dB BANDWIDTH (% OF f_c)	NUMBER OF SECTIONS	STOPBAND ATTENUATION
MBP-	10 TO 1500	2 TO 70%	2 TO 8	SEE CURVES ON NEXT PAGE
	1500 TO 4000	2 TO 50%		

VSWR: 1.5:1

Passband Insertion Loss (Max. at f_c): Next Page

Impedance: 50 ohms

Power Rating: 2 watts

Environment: MIL-E-5400, Class 1A
Surface Mounting

To designate the filter desired use:

- | | |
|-----------------------------|---|
| (1) Center frequency in MHz | (3) Number of sections |
| (2) 3dB bandwidth in MHz | (4) C1 or C2 Outline (from outlines on next page) |

Example: MBP-500-50-4-C1 is a 500 MHz center frequency, 50 MHz 3 dB bandwidth, 4 section, miniature band pass filter with an outline per C1 (on next page).

Specifications subject to change without notification.



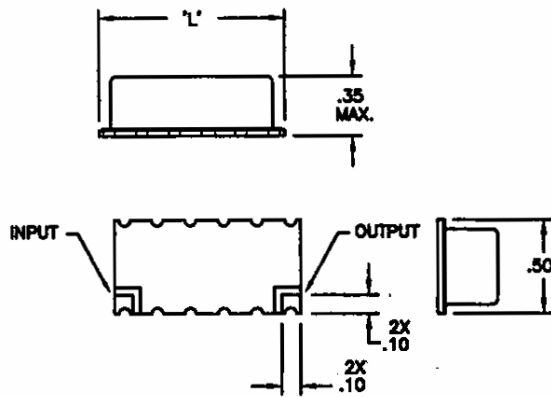
RLC ELECTRONICS, INC.

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Outlines

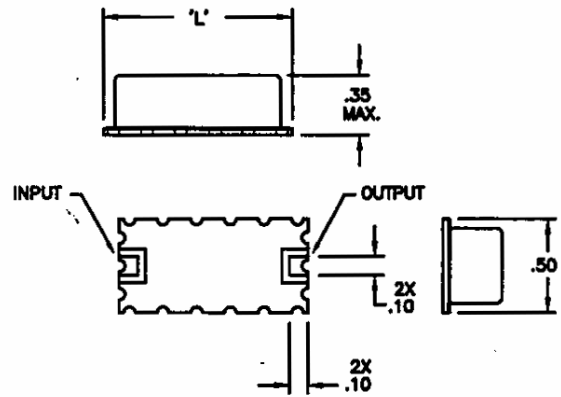
DIMENSIONS ARE IN INCHES

CONFIGURATION C1



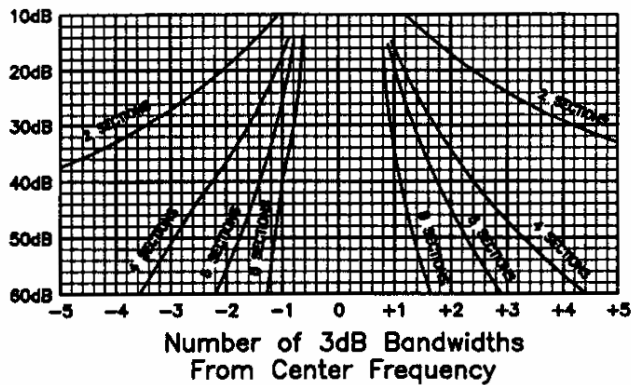
L = 1.00" FOR 5 OR LESS SECTIONS
L = 1.60" FOR 5 TO 8 SECTIONS

CONFIGURATION C2



L = 1.00" FOR 5 OR LESS SECTIONS
L = 1.60" FOR 5 TO 8 SECTIONS

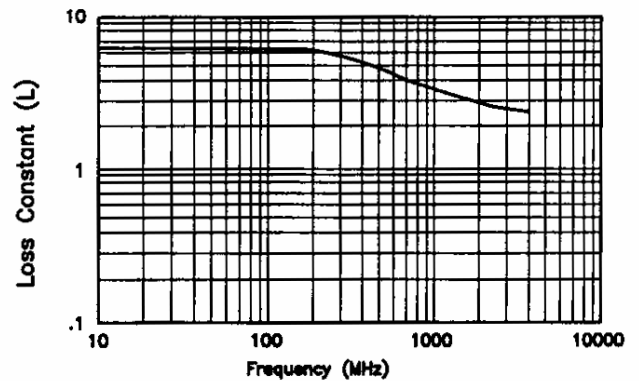
STOPBAND ATTENUATION



Curve For Percent Bandwidth of 6-18%

INSERTION LOSS

$$\text{Insertion Loss} = \frac{L \times (\text{Number of Sections} + .5)}{\% \text{ of } 3\text{dB bandwidth}} + .2\text{dB}$$



Tolerances unless otherwise specified are: .xx ± .02, .xxx ± .005



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