

High Frequency Surface Mount and Drop In Band Pass Filters



RLC Electronics' High Frequency Surface Mount and Drop In Band Pass Filters provide the excellent response of our filters with connector, in a package suitable for board mount-

ing. Standard packages allow up to 6 sections. Units are assembled using SN96 solder, Special packages, construction, and responses are also available.

SMBP-1-2-3-4

Model No.	Center Frequency Range (MHz)	3 dB Bandwidth (% of fc)	Number Of Sections	Stop Band Attenuation
SMBP	4000 To 6,000	5 To 50	2 To 6	See Curves On Next Page

Power Rating: 2.0 watts
Impedance: 50 ohms
VSWR: 1.5:1, fc to 20x fc
 (4000 MHz max.)

Temperature: -55°C to +85°C
Environment: Mil-E-5400, Class 1A
Mounting: Surface Mount

To designate the filter desired use:

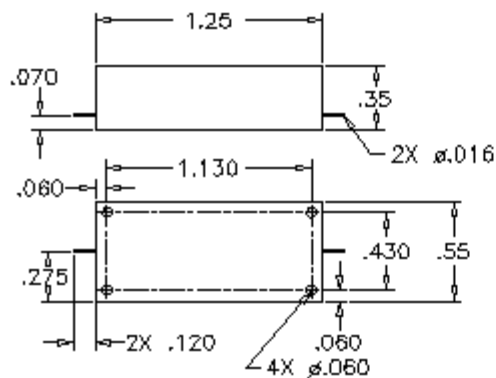
- (1) Center frequency in MHz
- (2) 3dB Band Width in MHz
- (3) Number of Sections
- (4) Configuration (C3 or DI)

Example: SMBP-5000-250-5-C3 is a 5000 MHz center frequency filter with 3dB bandwidth of 250 MHz, and 5 sections, in a C3 surface mount package.

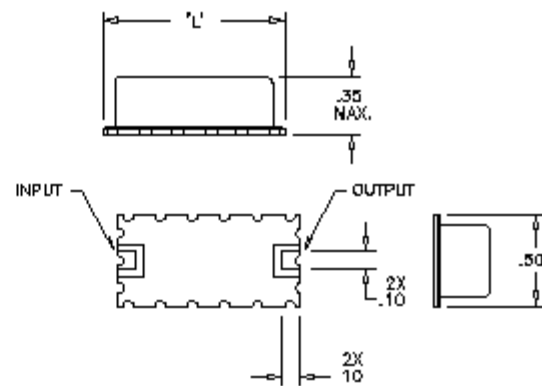
Outlines

DIMENSIONS ARE IN INCHES

CONFIGURATION DI



CONFIGURATION C3



L = 1.00" FOR 5 OR LESS SECTIONS
 L = 1.25" FOR 8 SECTIONS

Specifications subject to change without notification.

Tolerances unless otherwise specified are .xx +/- .02, xxx +/- .005

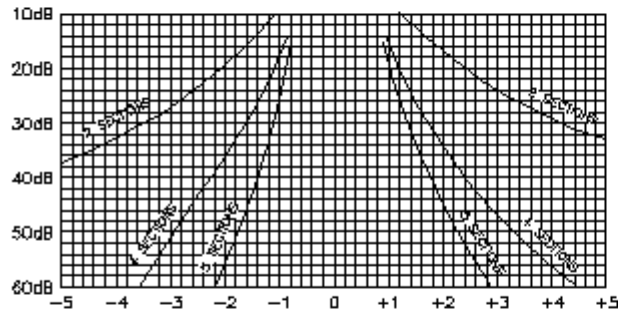
Specials requiring closer tolerances, different frequency ranges, special connectors, different materials, finishes, etc. can be furnished upon request.



RLC ELECTRONICS, INC.

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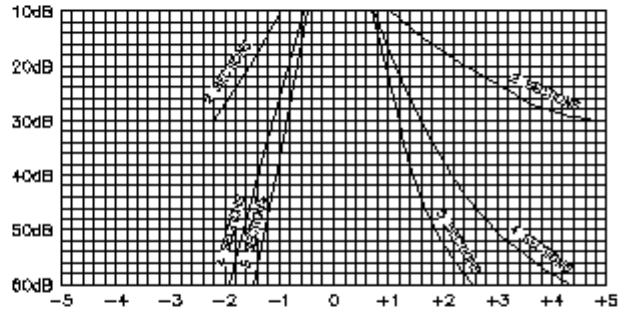
STOPBAND ATTENUATION



Number of 3dB Bandwidths
From Center Frequency
5 To 18% 3dB Band Width

INSERTION LOSS

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



Number of 3dB Bandwidths
From Center Frequency
18 To 50% 3dB Band Width

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