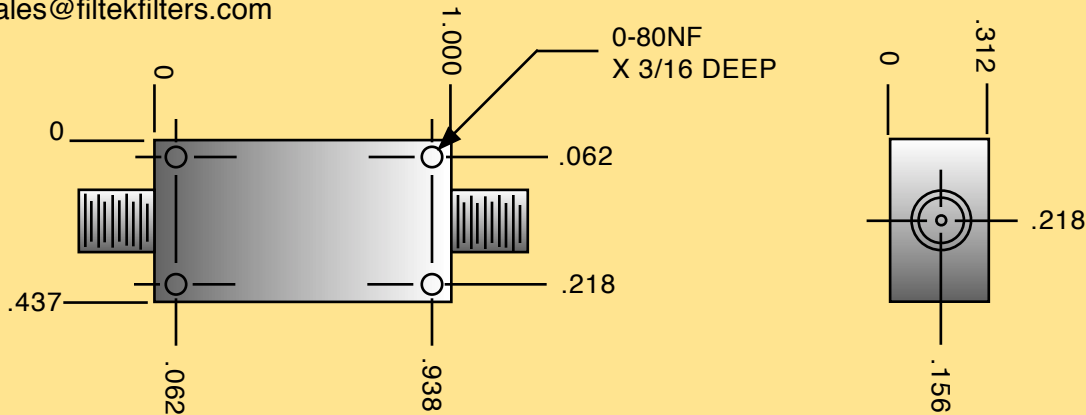


**Lumped Element Bandpass  
BP12 Series  
100 to 5000 MHz**

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Albuquerque New Mexico 87109  
(505) 345-1486 / Fax (928) 776-4208  
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See Page 12 in the full catalog for connector configurations. The size shown is a standard used by FILTEK to facilitate a low cost, easily reproducible unit. Should you require another size, please submit all of your requirements - both electrical and mechanical. This will enable FILTEK to quote the optimum design for your application.

**Specifications**

**Electrical**

Center Frequency (Fc)  
3dB Relative Bandwidth (% of Fc)  
Number of Sections Available  
Nominal Impedance  
Maximum VSWR  
Maximum Fc Insertion Loss  
Stopband Attenuation  
Average Power (Watts Max to 10K Feet)  
Peak Power (Watts Max to 10K Feet)

**STANDARD**

250 to 2500 MHz  
5 to 20  
3 to 6  
50 Ohms  
1.5/1  
See Chart Below  
See Curve page 22\*  
2  
10

**SPECIAL**

100 to 5000 Mhz  
3 to 100  
2 to 10  
75 or 100 Ohms  
1.25/1  
See Chart Below  
See Curve Page 22\*  
4  
20

**Insertion Loss**

The Maximum Insertion Loss at Center Frequency is equal to:

$$\frac{\text{Loss Factor} \times (\text{Number of Sections} + 0.5)}{\% \text{ 3dB Bandwidth}} + 0.2$$

Example:

The Maximum loss for a 3 Section BP12 Series filter with Fc at 1000 MHz and a 3dB Bandwidth of 200 MHz is:

$$(4.0 \times 3.5) / 20 + 0.2 = 0.9\text{dB}$$

\*Page 22 in Full Catalog

Center Frequency (MHz)	250 to 300	301 to 400	401 to 500	501 to 1000	1001 to 2500
<b>Loss Factor</b>	<b>6.0</b>	<b>5.5</b>	<b>4.7</b>	<b>4.0</b>	<b>3.3</b>

**Environmental**

Vibration (10 to 2000 Hz)  
Shock (11 mSec)  
Humidity  
Operating Temperature  
Non-Operating Temperature

**STANDARD**

10 G  
30 G  
90% Relative  
0° to +50°C  
-25° to +75°C

**SPECIAL**

50 G  
100 G  
100% Relative  
-25° to +100°C  
-54° to +125°C