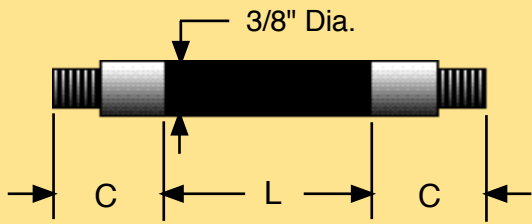


**Tubular Bandpass  
BP02 Series  
100 to 5000 MHz**

4410-A Hawkins St. NE  
Albuquerque New Mexico 87109  
(505) 345-1486 / Fax (928) 776-4208  
e-mail: sales@filteklfilters.com



The approximate length of a FILTEK BP02 series filter can be determined by adding the 'C' dimensions found on page 12 in the full catalog to the 'L' dimension in the table at the right. Please contact the factory if exact dimensions are required.

Number of Sections	Center Frequency (MHz)				
	250 to 300	301 to 350	351 to 750	751 to 1250	1251 to 4000
3	3.00	2.75	2.37	2.00	1.75
4	3.75	3.50	3.00	2.50	2.12
5	4.50	4.25	3.62	3.00	2.50
6	5.25	5.00	4.25	3.50	2.87
7	6.00	5.75	4.87	4.00	3.25
8	6.75	6.50	5.50	4.50	3.62

The approximate weight is .50 ounce per inch.

**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 4000 MHz
- 2 to 40
- 3 to 8
- 50 Ohms
- 1.5/1
- See Chart Below
- See Curve page 16\*
- (2 X % BW) / Loss Factor
- 1.5 X % BW

**SPECIAL**

- 100 to 5000 Mhz
- 1 to 100
- 2 to 12
- 75 or 100 Ohms
- 1.25/1
- See Chart Below
- See Curve Page 16\*
- 7500

\*Page 16 in Full Catalog

**Insertion Loss**

The Maximum Insertion Loss at Center Frequency is equal to:

$$\frac{\text{Loss Factor X (Number of Sections + .05)}}{\% \text{ 3dB Bandwidth}} + 0.2$$

Example:

The maximum loss for a 5 Section BP02 Series filter with Fc at 750 MHz and 3dB Bandwidth of 150 MHz is

$$(2.9 \times 5.5) / 20 + 0.2 = 0.99\text{dB}$$

Center Frequency (MHz)	250 to 300	301 to 350	351 to 750	751 to 1250	1251 to 4000
<b>Loss Factor</b>	<b>3.4</b>	<b>3.1</b>	<b>2.9</b>	<b>2.6</b>	<b>2.4</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