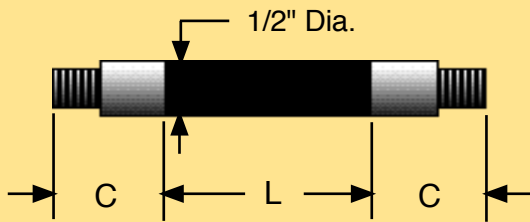


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The approximate length of a FILTEK BP03 series filter can be determined by adding the 'C' dimensions found on page 12 in the full catalog to the 'L' dimension in the table at the right. Please contact the factory if exact dimensions are required.

Number of Sections	Center Frequency (MHz)				
	100 to 200	201 to 400	401 to 1000	1001 to 1500	1501 to 2500
3	3.75	2.75	2.37	2.00	1.75
4	4.75	3.50	3.00	2.50	2.00
5	5.75	4.00	3.50	3.00	2.50
6	6.75	4.75	4.25	3.50	3.00
7	7.75	5.50	4.87	4.00	3.50
8	8.75	6.00	5.50	4.50	4.00

The approximate weight is .75 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

100 to 2500 MHz
2 to 40
3 to 8
50 Ohms
1.5/1
See Chart Below
See Curve page 16*
(3 X % BW) / Loss Factor
3 X % BW

SPECIAL

50 to 4000 Mhz
1 to 100
2 to 12
75 or 100 Ohms
1.25/1
See Chart Below
See Curve Page 16*
10,000

*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 4 Section BP03 Series filter with Fc at 500 MHz and 3dB Bandwidth of 25 MHz is

$$(2.2 \times 4.5) / 5 + 0.2 = 2.18\text{dB}$$

Center Frequency (MHz)	100 to 250	251 to 400	401 to 1000	1001 to 1500	1501 to 2500
Loss Factor	3.0	2.5	2.2	2.0	1.9

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