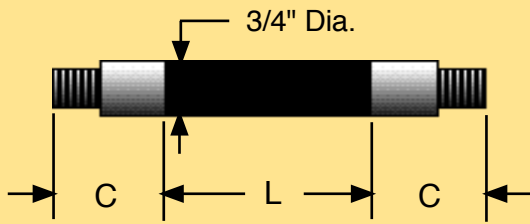


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The approximate length of a FILTEK BP04 series filter can be determined by adding the 'C' dimensions found on page 12 in the full catalog to the 'L' dimension in the table at the right. Please contact the factory if exact dimensions are required.

The approximate weight is 1.0 ounce per inch.

Number of Sections	Center Frequency (MHz)				
	50 to 65	66 to 80	81 to 150	151 to 1000	1001 to 1500
3	6.50	5.25	4.00	2.50	2.00
4	8.00	6.50	5.00	3.25	2.50
5	9.50	8.00	6.00	4.00	3.00
6	12.00	9.25	7.00	4.75	3.50
7	13.50	10.75	8.00	5.25	4.00
8	15.00	12.00	9.00	6.00	4.50

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

50 to 1500 MHz
2 to 40
3 to 8
50 Ohms
1.5/1
See Chart Below
See Curve page 16*
(5 X % BW) / Loss Factor
4 X % BW

SPECIAL

30 to 2000 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 BP04 Series filter with Fc at 100 MHz and 3dB Bandwidth of 5 MHz is

$$(2.1 \times 4.5) / 5 + 0.2 = 2.09\text{dB}$$

Center Frequency (MHz)	50 to 65	66 to 80	81 to 150	151 to 1000	1001 to 1500
Loss Factor	2.6	2.4	2.1	1.7	1.4

Environmental

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

STANDARD

5 G
15 G
90% Relative
0° to +50°C
-25° to +75°C

SPECIAL

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