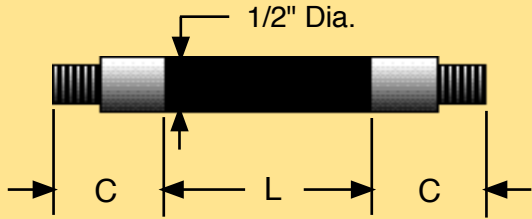


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The approximate length of a FILTEK LP03 series filter can be determined by adding the 'C' dimensions found on page 12 in the full catalog to the 'L' dimension in the table at the right. Please contact the factory if exact dimensions are required.

Number of Sections	Cutoff Frequency (MHz)				
	100 to 250	251 to 400	401 to 1000	1001 to 1500	1501 to 2500
3	3.50	2.25	2.00	1.50	1.25
4	4.50	3.00	2.45	1.95	1.70
5	5.50	3.75	2.90	2.40	2.15
6	6.50	3.50	3.35	2.85	2.60
7	7.50	4.00	3.80	3.30	3.05
8	8.50	5.00	4.25	3.75	3.50

The approximate weight is .75 ounce per inch.

## Specifications

### Electrical

Center Frequency (Fco)  
Number of Sections Available  
Nominal Impedance  
Maximum VSWR (.4 Fco to Fco)  
Maximum Fco Insertion Loss  
Stopband Attenuation  
Average Power (Watts Max to 10K Feet)  
Peak Power (Watts Max to 10K Feet)

### STANDARD

100 to 2500 MHz  
3 to 8  
50 Ohms  
1.5/1  
See Chart Below  
See Curve page 45\*  
6/Loss Factor  
500

### SPECIAL

50 to 4000 Mhz  
2 to 12  
75 or 100 Ohms  
1.25/1  
See Chart Below  
See Curve Page 45\*  
12/Loss Factor  
7500

\*Page 45 in Full Catalog

### Insertion Loss

The Maximum Insertion Loss in the passband is equal to:

(Loss Factor X Number of Sections) + .05 dB

Example:

The Maximum loss for a 4 Section LP03 Series filter with Fco at 250 MHz is:

$$(.2 \times 4) + .05 = 0.85\text{dB}$$

Cutoff Frequency (MHz)	100 to 200	201 to 400	401 to 1000	1001 to 1500	1501 to 2500
<b>Loss Factor</b>	<b>.24</b>	<b>.20</b>	<b>.17</b>	<b>.15</b>	<b>.14</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