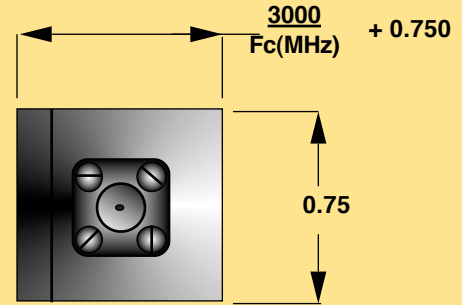
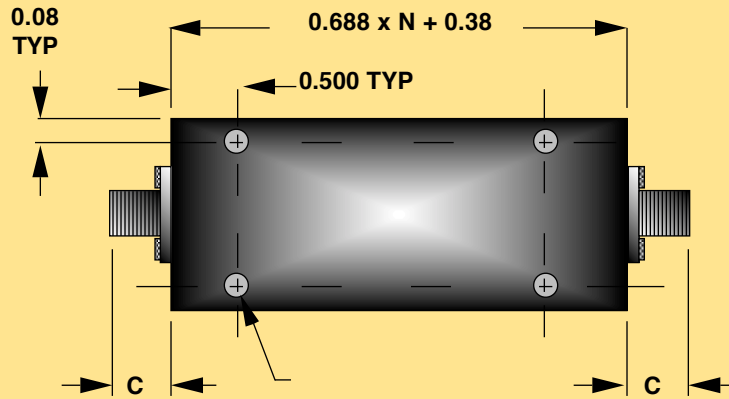


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**Cavity Bandpass
 BP25 Series
 1500 to 14000 MHz**



See Page 12 of the full catalog for 'C' dimensions. 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

- 2000 to 6000 MHz
- 0.3 to 2
- 3 to 6
- 50 Ohms
- 1.5/1
- See Chart Below
- See Curve page 32*
- 25% of Peak
- 15 X % BW

SPECIAL

- 1500 to 14000 Mhz
- 0.2 to 3
- 2 to 8
- 50 Ohms
- 1.25/1
- See Chart Below
- See Curve Page 32*
- 75
- 300

*Page 32 in Full Catalog

Insertion Loss

The Maximum Insertion Loss at Center Frequency is equal to:

$$\frac{\text{Loss Factor} \times (\text{Number of Sections} + 0.5)}{\% \text{ 3dB Bandwidth}} + 0.1$$

Example:
 The Maximum loss for a 5 Section BP25 Series filter with Fc at 3500 MHz and a 3dB Bandwidth of 35 MHz is:

$$(0.43 \times 5.5) / 1 + 0.1 = 2.4\text{dB}$$

Center Frequency (MHz)	2000 to 3000	3001 to 4000	4001 to 5000	5001 to 6000
Loss Factor	.44	.43	.42	.41

Environmental

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

STANDARD

- 10 G
- 25 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