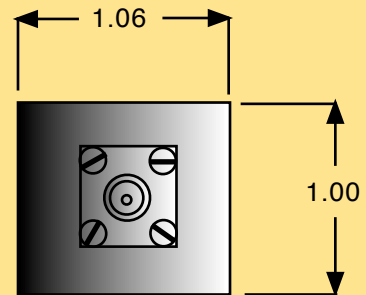
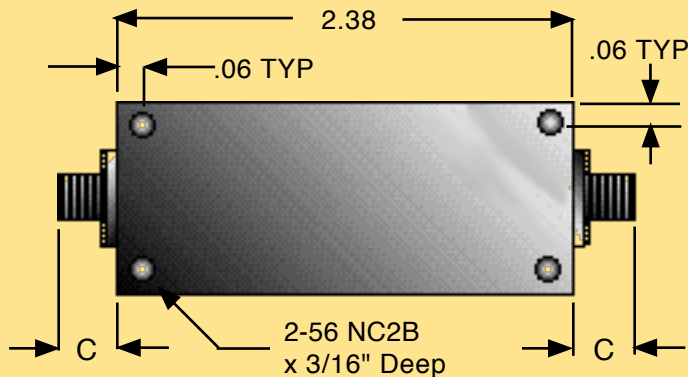


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**Lumped Element Bandpass
 BP11 Series
 10 to 250 MHz**



See Page 12 in the full catalog for 'C' dimensions and other connector configurations. 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

10 to 150 MHz
 2 to 60
 3 to 6
 50 Ohms
 1.5/1
 See Chart Below
 See Curve page 22*

SPECIAL

10 to 250 Mhz
 1 to 100
 2 to 10
 75 or 100 Ohms
 1.25/1
 See Chart Below
 See Curve Page 22*

Insertion Loss

The Maximum Insertion Loss at Center Frequency is equal to:

$$\frac{\text{Loss Factor} \times (\text{Number of Sections} + 0.5)}{\% \text{ 3dB Bandwidth}} + 0.2$$

Example:

The Maximum loss for a 3 Section BP11 Series filter with Fc at 90 MHz and a 3dB Bandwidth of 9 MHz is:

$$(4.9 \times 3.5) / 10 + 0.2 = 1.91\text{dB}$$

*Page 22 in Full Catalog

Center Frequency (MHz)	10 to 15	16 to 20	21 to 30	31 to 50	51 to 150
Loss Factor	6.0	5.5	5.2	5.0	4.9

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

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