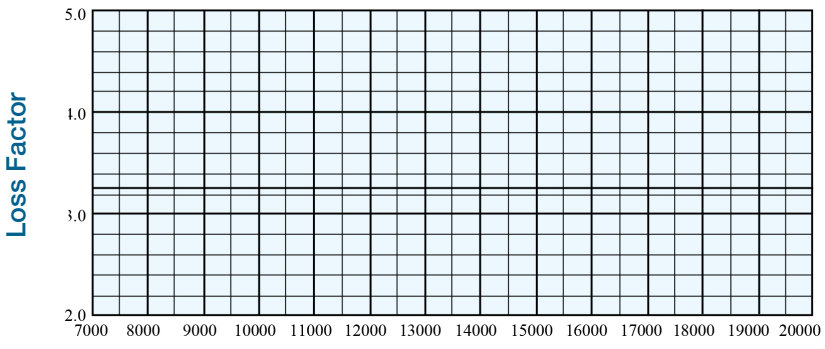
Benchmark
lark technology

BandPass
Low Profile Cavity Series
7000-20000 MHz

No. of Sections	2	3	4	5	6 or more
1.5/1 VSWR BW MIN 3 dB BW	0.4	0.7	0.8	0.85	0.9

Specification	Standard
Electrical	
Center Frequency (Fc)	7000 to 20000 MHz
3dB Relative Bandwidth (% of Fc)	10 to 30
Number of Sections Available	3 to 6
Nominal Impedance	50Ω
Maximum Insertion Loss	See Curve
Maximum VSWR	1.5/1
Attenuation in the Stopband	See Page 48
Environmental	
Shock	25 G's
Vibration	10 G's
Humidity	95% relative
Altitude	Unlimited
Temperature Range (Operating)	-40°C to + 85°C
Temperature (Non-Operating)	-65°C to + 125°C
Mechanical	
Approximate Weight in oz.	0.4 x H x L
Mounting Provisions	See Next Page
Special Configurations	Consult Lark

*Contact Benchmark Lark Engineering for Special Configurations



Insertion Loss:

The maximum Insertion Loss at center frequency is equal to:

$$\frac{LF \times (N=0.5)}{\%\ 3\ dB\ BW} + 0.2$$

Where:
LF = Loss Factor N = Number of Sections
% 3dB BW:

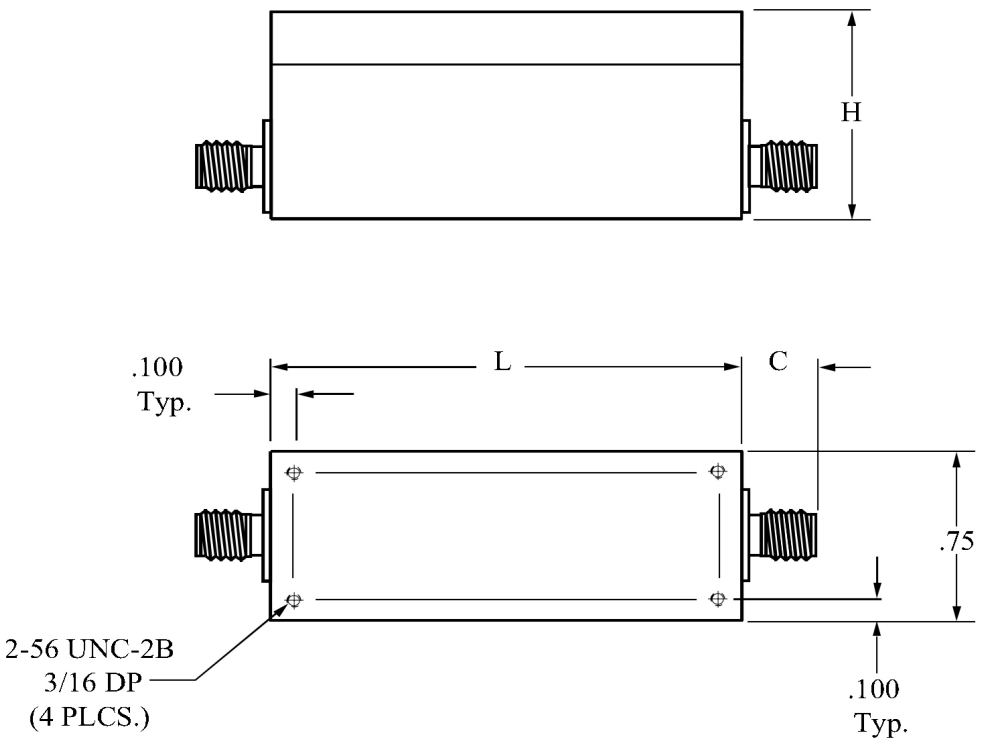
$$\frac{3dB\ BW\ (MHz) \times 100}{Center\ Frequency\ (MHz)}$$

Example:
A 5 section 3B with a center frequency of 10000 MHz and a 3dB BW of 500 MHz would be:

$$\frac{3.25 \times 5.5}{5} = 3.5$$

3.5 + 0.2 = 3.7 dB

Mechanical Specifications — LPC Series



The size shown is a standard used by Lark to facilitate low cost, easily reproduced units. Should you require another size, please submit all of your requirements, both electrical and mechanical, to Benchmark Lark Engineering. This will enable Lark to quote the optimum design for your application.

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