



NO. OF SECTIONS	2	3	4	5	6 OR MORE
1.5/1 VSWR BW	0.4	0.7	0.8	0.85	0.9
MIN. 3 dB BW					

SPECIFICATIONS	STANDARD
<b>ELECTRICAL</b>	
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
<b>ENVIRONMENTAL</b>	
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
<b>MECHANICAL</b>	
Approximate Weight in oz.	0.4 x H x L
Mounting Provisions	See Next Page
Special Configurations	Consult Lark

\*Contact Lark Engineering

**INSERTION LOSS:**

The maximum Insertion Loss at center frequency is equal to:

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

Where:

LF = Loss Factor

N = Number of Sections

% 3dB BW:

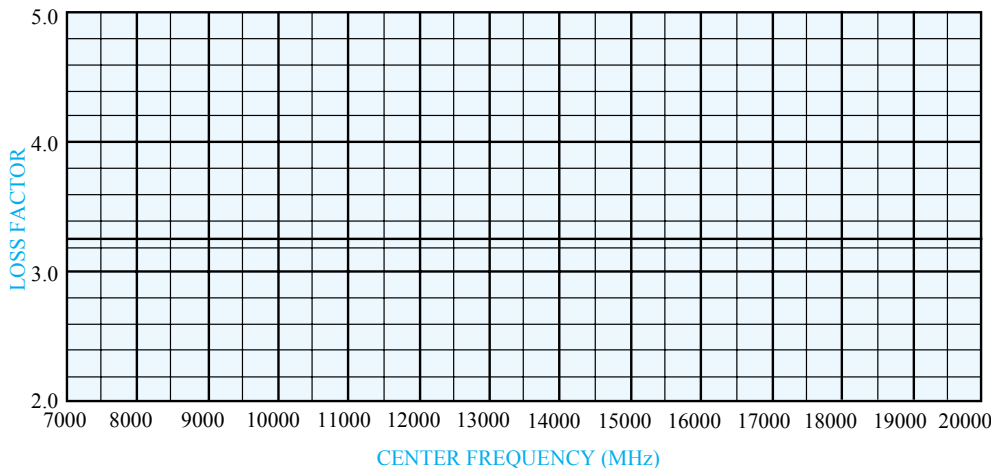
$$\frac{3\text{dB BW (MHz)} \times 100}{\text{CENTER FREQUENCY (MHz)}}$$

Example:

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

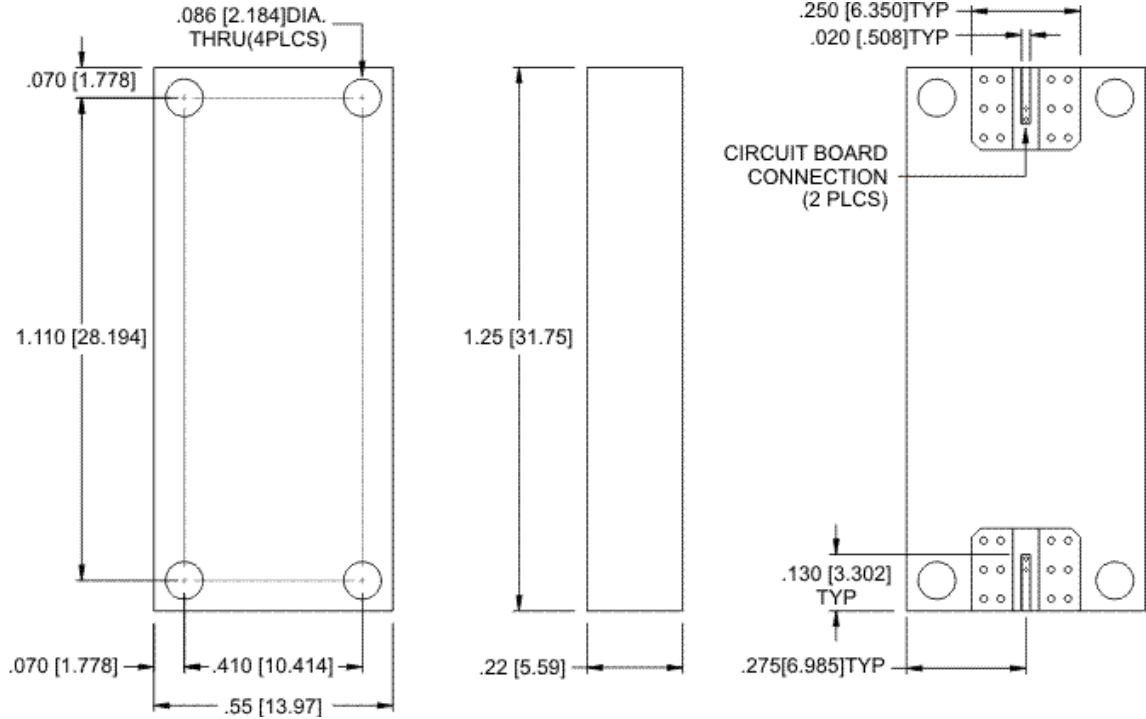
$$\frac{3.25 \times 5.5}{5} = 3.5$$

$$3.5 + 0.2 = 3.7 \text{ dB}$$



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 Lark Engineering. This will enable Lark to quote the optimum design for your application.