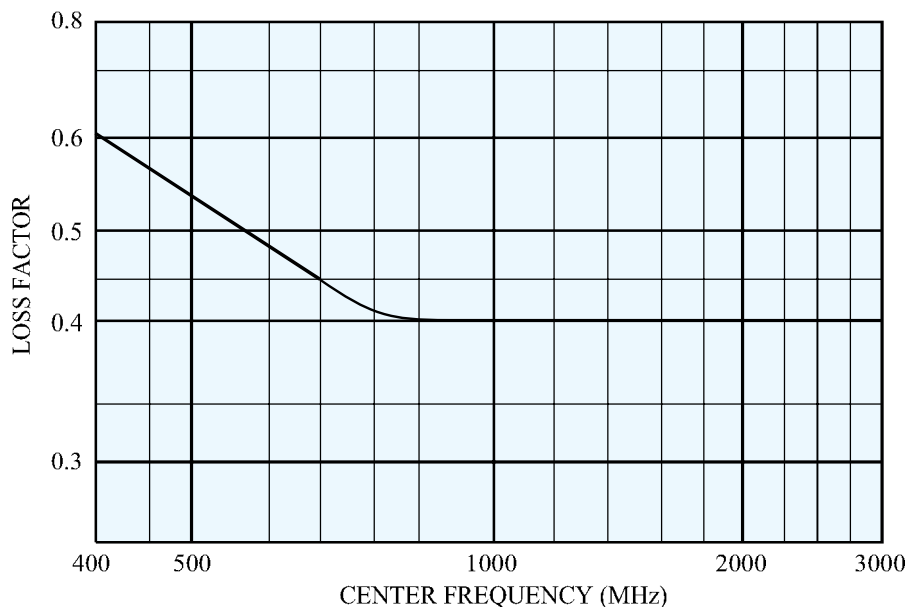




NO. OF SECTIONS	2	3	4	5	6 OR MORE
1.5/1 VSWR BW	0.4	0.7	0.8	0.85	0.9
MIN. 3 dB BW					

SPECIFICATIONS	STANDARD	*SPECIAL
ELECTRICAL		
Center Frequency (Fc)	400 to 2000 MHz	400 to 2500 MHz
3dB Relative Bandwidth (% of Fc)	0.2 to 3.5	0.2 to 3.5
Number of Sections Available	3 to 6	2 to 7
Nominal Impedance	50	50
Maximum Insertion Loss	See Curve	See Curve
Maximum VSWR	1.5/1	1.3/1
Attenuation in the Stopband	See Page 44	See Page 44
Maximum Input Power (Average) (Watts to 10,000 ft.)	See peak	See Standard
Maximum Input Power (Peak) (Watts to 10,000 ft.)	$\frac{1500 \times 3 \text{ dB BW (MHz)}}{F_c \text{ (MHz)}}$	See Standard
ENVIRONMENTAL		
Shock	20 G's	20 G's
Vibration	10 G's	15 G's
Humidity	95% relative	100% relative
Altitude	Unlimited	Unlimited
Temperature Range (Operating)	-25°C to + 85°C	-54°C to + 85°C
Temperature (Non-Operating)	-54°C to + 125°C	-62°C to + 125°C
MECHANICAL		
Approximate Weight in oz.	0.9 x L x W	0.8 x L x W
Mounting Provisions	See Next Page	See Next Page
Special Configurations	Consult Factory	Consult Factory

*Contact Lark Engineering



INSERTION LOSS:

The maximum Insertion Loss at center frequency is equal to:

$$\frac{LF \times (N + 0.5)}{\% \text{ 3 dB BW}} + 0.1$$

Where:

- LF = Loss Factor
- N = Number of Sections

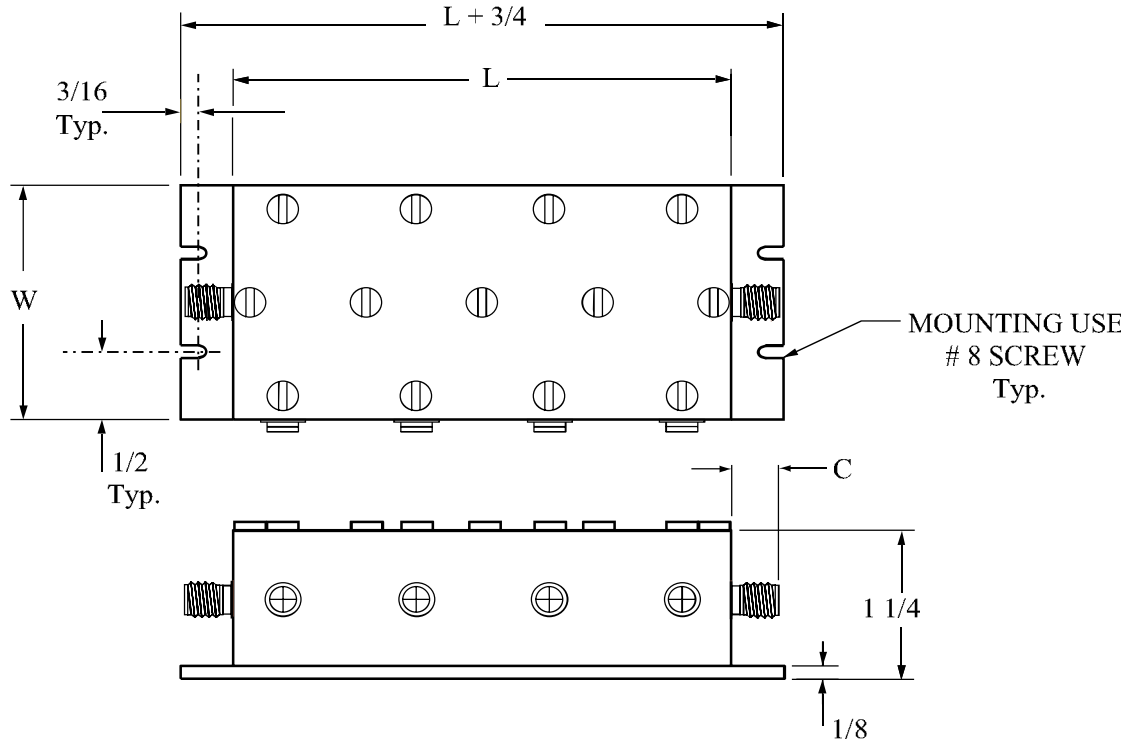
$$\% \text{ 3dB BW: } \frac{3\text{dB BW (MHz)} \times 100}{\text{CENTER FREQUENCY (MHz)}}$$

Example:

A 5 section 3C with a center frequency of 1000 MHz and a 3dB BW of 20 MHz would be:

$$\frac{0.4 \times 5.5}{2} = 1.1$$

$$1.1 + 0.1 = 1.2\text{dB}$$



SECTIONS	DIMENSIONS L (inches)
2	2.50
3	3.62
4	4.75
5	5.87
6	7.00

FREQUENCY RANGE	DIMENSIONS W (inches)
400 - 600 MHz	4.87
601 - 900 MHz	3.87
901 - 1300 MHz	2.87
1301 - 1800 MHz	2.37
1801 - 2500 MHz	1.87

CONNECTORS AVAILABLE ON 3C SERIES:

TYPE	DIMENSIONS		TYPE	DIMENSIONS	
	INCHES	MM		INCHES	MM
SMA JACK	.375	9.5	N JACK	.736	18.7
SMA PLUG	.507	12.9	N PLUG	.819	20.8
*TNC JACK	.750	19.1	SPECIAL		
*TNC PLUG	.844	21.4			

*Not recommended for use with this filters

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.