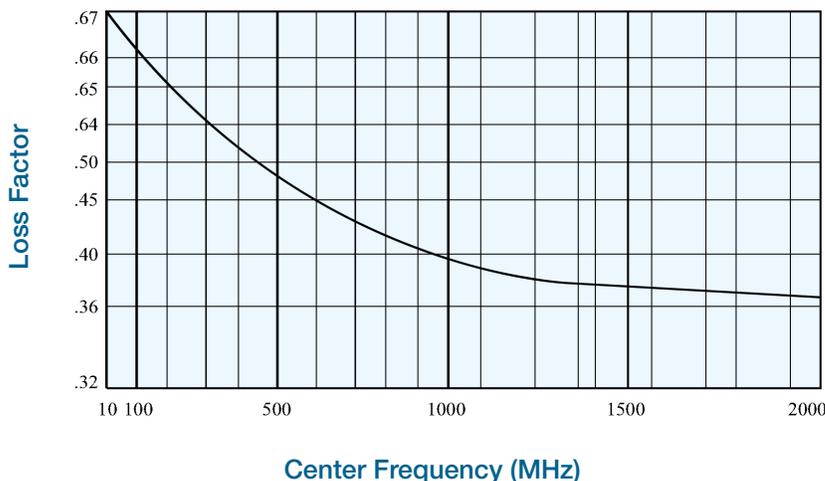




Specification	Standard	*Special
<b>Electrical</b>		
Cut-off Frequency (Fco)	10 to 2000 MHz	1 to 3000 MHz
Number of Sections Available	3 to 6	2 to 10
Nominal Impedance	50	50 to 100
Maximum Insertion Loss	See Curve	See Curve
Maximum VSWR (Fco. to 3 Fco.)	1.5/1	1.3/1
Attenuation in the Stopband	See Page 67	See Page 67
Maximum Input Power (Average) (Watts to 10,000 ft.)	2	4
Maximum Input Power (Peak) (Watts to 10,000 ft.)	20	40
<b>Environmental</b>		
Shock	20 G's	50 G's
Vibration	10 G's	15 G's
Humidity	90% relative	100% relative
Altitude	Unlimited	Unlimited
Temperature Range (Operating)	-40°C to + 85°C	-55°C to + 125°C
Temperature (Non-Operating)	-65°C to + 125°C	-65°C to + 125 °C
<b>Mechanical</b>		
Approximate Weight in oz.	L x 5 + 10	L x 5 + 10
Mounting Provisions	See Next Page	See Next Page
Special Configurations	Consult Factory	Consult Factory

\*Contact Benchmark Lark Engineering for Special Configurations



### Insertion Loss:

The maximum Insertion Loss at cutoff frequency is equal to:

$$LF \times N + 0.05\text{dB}$$

Where:

LF = Loss Factor    N = Number of Sections

Example:

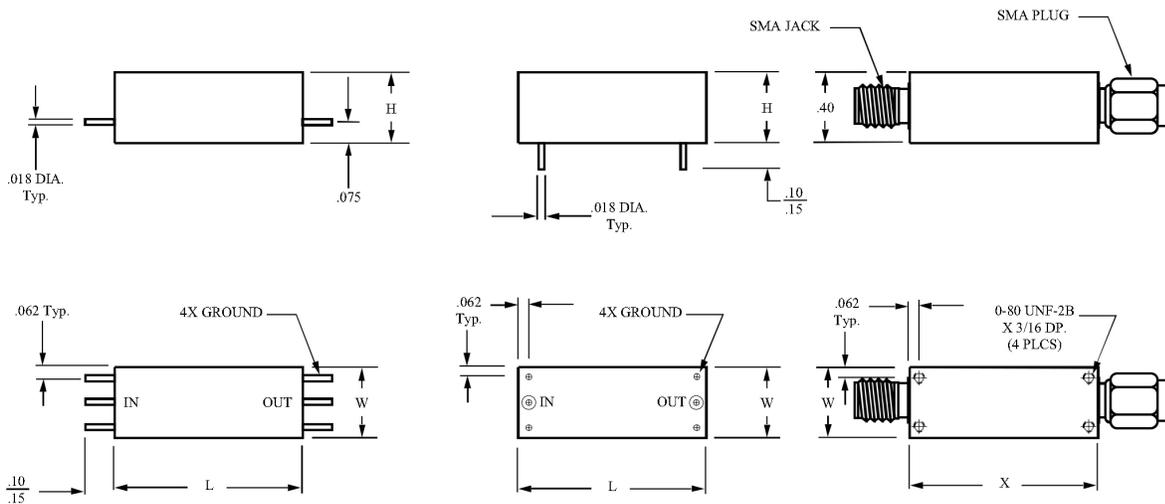
A 3 section HMC with a cutoff frequency of 500 MHz would be:

$$0.48 \times 3 = 1.44 + 0.05 = 1.5\text{dB}$$

Frequency Range	Number of Sections	W	H	L	X
10-100 MHz	2 to 3	0.55	0.40	1.00	1.25
	4 to 5	0.55	0.40	1.50	1.75
	6 to 7	0.55	0.40	1.75	2.00
101-300 MHz	2 to 3	0.44	0.40	0.75	1.00
	4 to 5	0.44	0.40	1.00	1.25
	6 to 7	0.44	0.40	1.50	1.75
301-3000 MHz	2 to 3	0.44	0.31	0.75	1.00
	4 to 5	0.44	0.31	0.75	1.00
	6 to 7	0.44	0.31	1.25	1.50

Over 7 sections- Consult Benchmark Lark Engineering  
 Note: All Standard Units with SMA Connectors are supplied H = 0.40"

## Mechanical Specifications – HMC Series



### Connectors Available on HMC Series

Type \_\_\_\_\_  
 SMA Jack \_\_\_\_\_  
 SMA Plug \_\_\_\_\_  
 Solder Pin Axial \_\_\_\_\_

Type \_\_\_\_\_  
 Solder Pin Radial \_\_\_\_\_  
 Special \_\_\_\_\_

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.

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