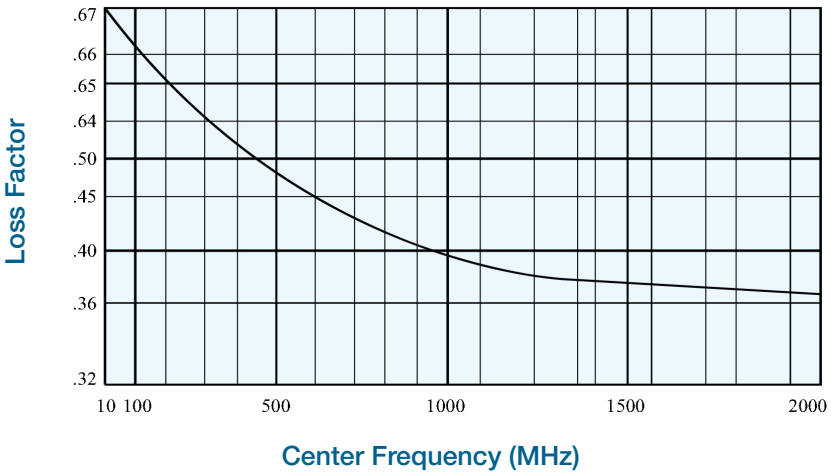
Benchmark
lark technology

HIGHPASS
HMS Series
10-1500 MHz

Specification	Standard	*Special
Electrical		
Cut-off Frequency (Fco)	10 to 1500 MHz	1 to 2500 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
Environmental		
Shock	20 G's	50 G's
Vibration	10 G's	15 G's
Humidity	95% 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
Mechanical		
Approximate Weight in oz.	L x 4	L x 4
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:

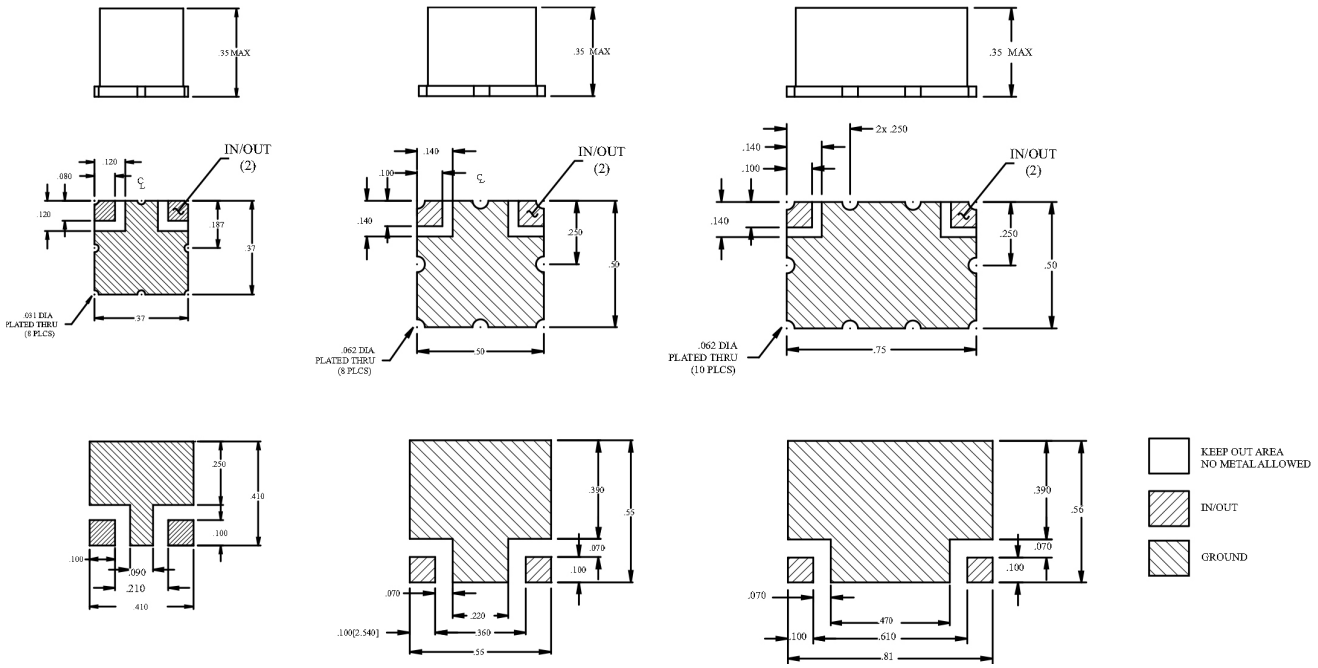
LF x N + 0.05dB

Where:
LF = Loss Factor N = Number of Sections

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

0.48 x 3 = 1.44 + 0.05 = 1.5dB

Mechanical Specifications — HMS Series



Frequency Range	Number of Sections	W	L	H
1-9.9 MHz	2	0.50	1.00	0.35
	3 to 4	0.50	1.50	0.35
	5 to 6	0.50	2.50	0.35
10-100 MHz	2 to 3	0.50	0.75	0.35
	4 to 5	0.50	1.00	0.35
	6 to 7	0.50	1.50	0.35
101-300 MHz	2 to 3	0.50	0.50	0.35
	4 to 5	0.50	1.00	0.35
	6 to 7	0.50	1.50	0.35
301-1000 MHz	2 to 3	0.50	0.50	0.35
	4 to 5	0.50	0.75	0.35
	6 to 7	0.50	1.00	0.35
1001-3000 MHz	2 to 3	0.37	0.37	0.35
	4 to 5	0.50	0.50	0.35
	6 to 7	0.50	0.75	0.35

For filters over 7 sections — Consult Benchmark Lark Engineering for Special Configurations

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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