

High Pass Cable Filters

RLC Electronics' High Pass Cable Filters combine the excellent response of our F-90 series filters with the mechanical flexibility of formed semi-rigid cable(s).



HPC-1-2-3-4

Model	Cut Off Frequency (MHz)	Number Of Sections	20 dB Point Typical	40 dB Point Typical	60 dB Point (Min.)	3 dB Point Typical	Insertion Loss of Filter
HPC	50 To 2,000	2	0.50 fc	0.25 fc	X	0.70 fc	1.0
		3	0.65 fc	0.50 fc	0.35 fc	0.80 fc	1.0
		4	0.73 fc	0.62 fc	0.50 fc	0.84 fc	1.0
		5	0.78 fc	0.72 fc	0.60 fc	0.88 fc	1.1
		6	0.82 fc	0.78 fc	0.68 fc	0.90 fc	1.2

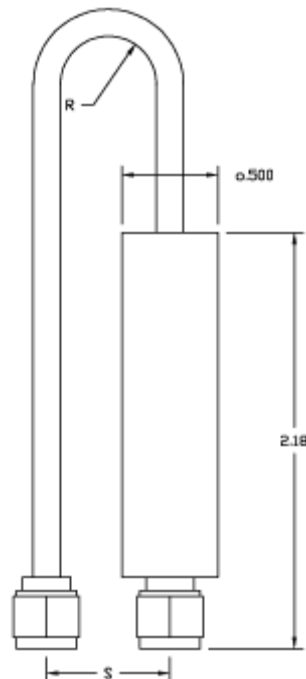
Power Rating: 2.0 watts
Impedance: 50 ohms
VSWR: 1.5:1, fc to 20x fc
 (4000 MHz max.)
Connector Type: SMA Male

Temperature: -55°C to +85°C
Environment: Mil-E-5400, Class 1A
Cable diameter: .141, .086
Insertion Loss: Filter Loss + Cable Loss

To designate the filter desired use:

1. Cut-off frequency in MHz
2. Number of Sections
3. Connector Spacing (S in inches)
4. Cable diameter AC for .141, BC for .086

Example: HPC-500-5-2.5-AC is a 500 MHz cut-off, 5 section high pass filter with connectors 2.5 inches apart using .141 diameter cable.



CABLE DIA.	MINIMUM BEND RADIUS
.141	.23
.086	.45

PASSBAND	CABLE LOSS CONSTANT	
	.141 DIAMETER	.086 DIAMETER
0 TO 2 GHz	.14 dB/ft.	.24 dB/ft.
2 TO 4 GHz	.30 dB/ft.	.61 dB/ft.

$$\text{APPROXIMATE CABLE LENGTH} = R \times \pi + 2.18'$$

Specifications subject to change without notification.

Tolerances unless otherwise specified are .xx +/- .02, xxx +/- .005

Specials requiring closer tolerances, different frequency ranges, special connectors, different materials, finishes, etc. can be furnished upon request.



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