

ALLEN AVIONICS, INC.

Sharp Cut-Off Highpass Custom Built LC Filters - 500 Hz to 150 MHz

scohpPrinter

Allen Avionics manufactures Highpass Filters using many design types such as: Butterworth, Chebyshev and Elliptic Functions. The filters tabulated on this page are Chebyshev type. Other types can be designed when their special properties are needed.

- ▶ **Frequency Range:** 500 Hz to 150 MHz
- ▶ **Impedance Range:** 50 Ohms to 20K Ohms
- ▶ **Construction:** Epoxy encapsulated or sealed in metal cans
- ▶ **Delivery:** Prototypes can often be delivered in less than 7 days.
Call or e-mail factory for special sizes
- ▶ Maximum Ripple: 1dB
- ▶ Maximum Insertion Loss: 2dB

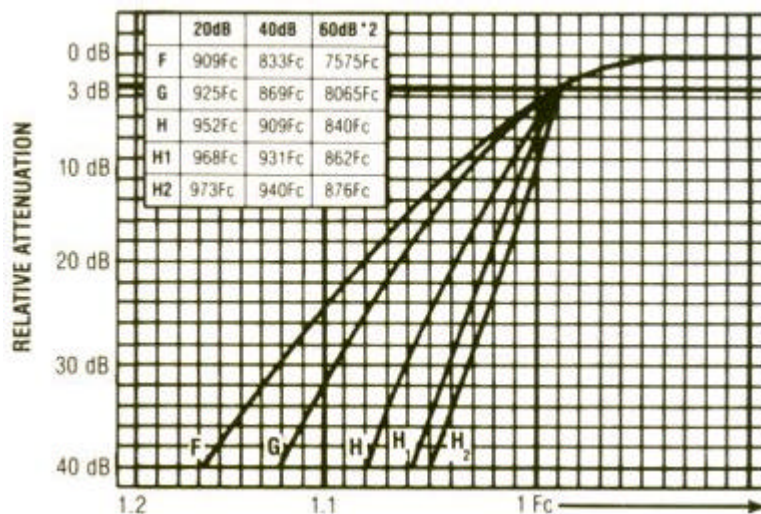
Order any Cut-Off Frequency from 500 Hz to 150 MHz. Interpolation between tabulated data allowable.

Size (Inches)

Units normally supplied in metal cans for printed circuit mounting (or end terminals). SMA connectors same size. BNC connectors may require larger cans. Epoxy cases available where listed in table.

Metal Cans			Encapsulated in Epoxy Case:				
	L	W	H		L	W	H
K3	3.00 x	1.125	x .750	X	3.00 x	1.500	x 1.00
M	3.00 x	1.625	x 1.125	X1	3.00 x	2.00	x 1.00
M1	3.00 x	2.000	x 1.250	Y	4.00 x	1.500	x 1.125
N	4.00 x	1.500	x 1.250	Y1	4.00 x	2.000	x 1.250
N1	4.00 x	2.000	x 1.250	Z	4.50 x	2.500	x 1.375
O	5.00 x	1.500	x 1.250				

Download Mechanical Specs from the WEB site



Custom Sharp Cutoff LC Highpass Filters - Series SCOHP											
1dB Maximum Ripple 2dB Maximum Insertion Loss											
Cut-Off (Fc) Frequency 3dB Max.	Impedance Range (Ohms)	Shape Factor (See Graph)	Size		Cut-Off (Fc) Frequency 3dB Max.	Impedance Range (Ohms)	Shape Factor (See Graph)	Size			
			Epoxy	Metal				Epoxy	Metal		
500Hz	1K-3K	F	Z	—	4MHz	50-150	F	X	M		
		G	Z	—			G	—	N		
1KHz	500-10K	F	Z	—			H	—	N1		
		G	Z	—			H1	—	O		
		H	Z	—			H2	—	O		
2.5KHz	500-20K	F	Z	—			5MHz	50-100	F	X	M
		G	Z	—					G	—	N
		H	Z	—					H	—	N
5KHz	150-20K	F	Y1	N1			6MHz	50-100	H1	—	O
		G	Z	—					H2	—	O
		H	Z	—	F	—			M		
7.5KHz	150-20K	F	Y1	N1	7MHz	50-100	G	—	M		
		G	Y1	N1			H	—	N		
		H	Z	—			H1	—	N		
		H1	Z	—			H2	—	O		
10KHz	500-10K	F	Y1	N1	8MHz	50-100	F	—	K3		
		G	Y1	N1			G	—	M		
		H	Z	—			H	—	N		
		H1	Z	—			H1	—	N		
		H2	Z	—			H2	—	O		
25KHz	150-10K	F	Y1	N1	9MHz	50-100	F	—	K3		
		G	Y1	N1			G	—	M		
		H	Z	—			H	—	N		
		H1	Z	—			H1	—	N		
50KHz	100-10K	H2	Z	—	10MHz	50-100	H2	—	O		
		F	Y1	N1			F	—	K3		
		G	Y1	N1			G	—	M		
		H	Z	—			H	—	N		
		H1	Z	—			H1	—	N		
75KHz	150-10K	H2	Z	—	15MHz	50-75	H2	—	O		
		F	Y	N			F	—	K3		
		G	Y1	N1			G	—	M		
		H	Y1	N1			H	—	N		
100KHz	50-10K	H1	Z	—	20MHz	50	H1	—	N		
		H2	Z	—			H2	—	O		
		F	Y	N			F	—	K3		
		G	Y1	N1			G	—	M		
		H	Y1	N1			H	—	N		
200KHz	50-5K	m	Y1	N1	25MHz	50	H1	—	N		
		H2	Z	O			H2	—	O		
		F	X	M			F	—	M		
		G	X1	M1			G	—	M		
300KHz	50-5K	H	Y	N			H	—	N		
		H1	Y1	N1			H1	—	N		
		H2	Y1	N1			H2	—	O		

*1 Connectors only
 *2 Attenuation depends on frequency and termination type

Custom Sharp Cutoff LC Highpass Filters - Series SCOHP									
1dB Maximum Ripple 2dB Maximum Insertion Loss									
Cut-Off (Fc) Frequency 3dB Max.	Impedance Range (Ohms)	Shape Factor (See Graph)	Size		Cut-Off (Fc) Frequency 3dB Max	Impedance Range (Ohms)	Shape Factor (See Graph)	Size	
			Epoxy	Metal				Epoxy	Metal
400KHz	50-5K	F	X	M	30MHz	50	F	—	M
		G	X1 i	M1			G	—	M
		H	Y	N			H	—	N
		H1	Y1	N1			H1	—	N
		H2	Y1	N1			H2	—	O
500KHz	50-2.5K	F	X	M	35MHz	50	F	—	M
		G	X1	M1			G	—	N
		H	Y	N			H	—	N
		H1	Y1	N1			H1	—	O
		H2	Y1	N1			H2	—	O
750KHz	50-1 K	F	X	M	40MHz	50	F	—	M
		G	X1	M1			G	—	N
		H	Y	N			H	—	N
		H1	Y1	N1			H1	—	O
		H2	Y1	N1			H2	—	O
1MHz	50-250	F	X	M	45MHz	50	F	—	M
		G	Y	N			G	—	N
		H	Y1	N1			H	—	N
		H1	—	O			H1	—	O
		H2	—	O			H2	—	O
2MHz	50-200	F	X	M	*1 50MHz	50	F	—	M
		G	Y	N			G	—	N
		H	—	N1			H	—	N
		m	—	O			H1	—	O
		H2	—	O					
3MHz	50-100	F	X	M	*1 100MHz	50	F	—	M
		G	Y	N			G	—	N
		H	—	N1			H	—	O
		H1	—	O			F	—	M
		H2	—	O			G	—	N
					*1 150MHz	50	F	—	M
							G	—	N
							H	—	O

*1 Connectors only

*2 Attenuation depends on frequency and termination type

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We are pleased to accept

