

ALLEN AVIONICS

Band Reject - Custom LC Filter

Allen Avionics manufactures 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.

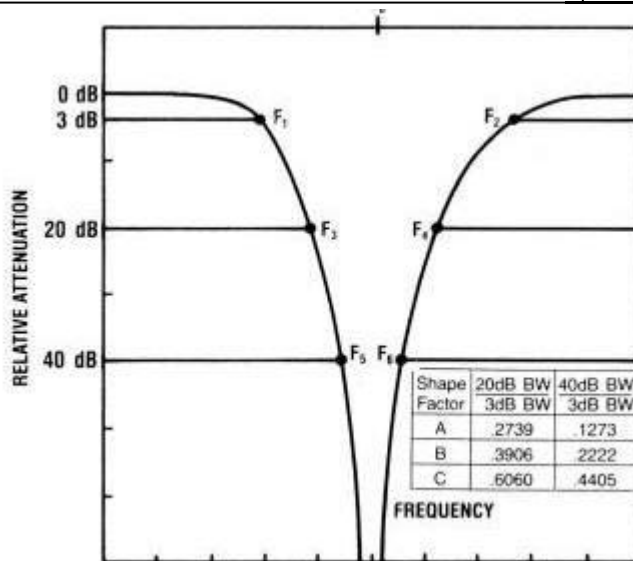
- Frequency Range: 500 Hz to 150 MHz
- Impedance Range: 50 Ohms to 2.5K Ohms
- Construction: Epoxy encapsulated or sealed in metal cans
- Delivery: Prototypes can often be delivered in less than 7 days.
- Call or e-mail factory for special sizes
- Maximum Ripple: 1dB

Order any Center Frequency from 500 Hz to 150 MHz. Interpolation between tabulated Center Frequencies and Bandwidth is allowable.

Metal Cans			
	L	W	H
K3	3.00 x	1.125	x .750
M	3.00 x	1.625	x 1.125
MI	3.00 x	2.000	x 1.250
N	4.00 x	1.500	x 1.250
NI	4.00 x	2.000	x 1.250
O	5.00 x	1.500	x 1.250
O1	5.00 x	2.000	x 1.250
P	6.00 x	1.500	x 1.250
Encapsulated in Epoxy Case			
	L	W	H
W	2.50 x	1.125	x .750
X	3.00 x	1.500	x 1.000
X1	3.00 x	2.000	x 1.000
Y	4.00 x	1.500	x 1.125
Y1	4.00 x	2.000	x 1.250
Z	4.50 x	2.500	x 1.375

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.



$$F_o = \sqrt{F_1 F_2} = \sqrt{F_3 F_4} = \sqrt{F_5 F_6}$$

Custom Band Reject Filters - Series BR

Center Frequency (Fo)	Q Range F _o / 3dB BW	Shape Factor	Impedance Range (Ohms)	Insertion Loss (dB) Typical	Size	
					Epoxy	Metal
500 Hz	1-7	A	1K	1	Y1	N1
	1-5	A	500 - 1K	1	Y1	N1
1 KHz	5-10	A	1K	2	Z	O1
	1-7	B	500 - 1K	3	Y1	—
5 KHz	1-5	A	500 - 1.5K	1	Y1	N1
	5-12	A	1K	3	Z	O1
	1-5	B	500 - 1.5K	1	Z	—
10 KHz	5-8	B	1K	2	Z	—
	1-5	A	500-2K	1	Y1	N1
	5-10	A	500 - 1K	2	Y1	N1
	10-15	A	1K	3	Z	O1
	1-5	B	500 - 1K	2	Z	—
25 KHz	5-10	B	1K	3	Z	—
	1-3	C	500 - 1K	1	Z	—
	1-5	A	500-2K	1	Y	N
	5-10	A	1K	2	Y1	N1
	10-18	A	1K	3	Z	O1
50 KHz	1-5	B	500-2K	1	Y1	N1
	5-12	B	1K	2	Z	O1
	1-4	C	500-1.5K	3	Z	—
	1-5	A	250-2K	1	Y	N
100 KHz	5-10	A	500 - 1K	2	Y1	N1
	10-25	A	500-600	3	Z	O1
	1-5	B	250-1.5K	1	Y1	N1
	5-10	B	500 - 1K	2	Z	O1
	10-20	B	500-600	3	Z	—
	1-5	C	500-1.5K	1	Z	—
	5-8	C	500 - 1K	3	Z	—
250 KHz	1-5	A	100-25K	1	X	M
	5-10	A	200 - 1K	2	X1	M1
	10-30	A	500-600	3	Y	N
	1-5	B	100-2K	1	Y1	N1
	5-10	B	250 - 1K	2	Y1	N1
	10-25	B	500-600	3	Z	O1
	1-5	C	100-2K	1	Z	—
500 KHz	5-10	C	500-600	2	Z	—
	1-5	A	50 - 1K	1	W	K3
	5-10	A	100-500	2	X	M
	10-25	A	100-250	3	X1	M1
	1-5	B	75-600	1	Y	N
	5-10	B	100-500	2	Y1	N1
	10-20	B	100-250	3	Y1	N1
750 KHz	1-5	C	100-500	1	Y1	N1
	5-8	C	100	2	Z	O1
	1-5	A	50-500	1	W	K3
	5-15	A	50-250	2	X	M
	10-12	A	100	3	X1	M1
1 MHz	1-5	B	50-500	1	Y	N
	5-12	B	75-100	2	Y1	N1
	1-5	C	50-250	1	Z	O1
	1-5	A	50-200	1	Y	N
1 MHz	5-10	A	75-100	2	Y1	N1
	1-5	B	50-150	1	Y1	N1
	5-7	B	75-100	2	—	N1
	1-4	C	50-100	1	—	O1
	1 MHz	1-5	A	50-150	1	—
5-10		A	75-100	2	—	M1
10-12		A	100	3	—	N
1-5		B	50-150	1	—	N
5-8		B	75-100	2	—	N1
1-5	C	50-100	3	—	O	

Center Frequency (Fo)	Q Range F _o / 3dB BW	Shape Factor	Impedance Range (Ohms)	Insertion Loss (dB) Typical	Size	
					Epoxy	Metal
2.5 MHz	1-5	A	50-150	1	—	M
	5-10	A	50-75	2	—	M1
	10-12	A	75	3	—	N
	1-5	B	50-150	1	—	N
	5-8	B	50-75	2	—	N1
	1-5	C	50-100	3	—	O
5 MHz	1-5	A	50-100	1	—	M
	5-10	A	50-75	2	—	N
	10-15	A	75	3	—	O
	1-5	B	50-75	1	—	N1
	5-10	B	50-75	2	—	O
	1-5	C	50-75	3	—	P
7.5 MHz	1-5	A	50-75	1	—	M
	5-10	A	50-75	2	—	N
	10-15	A	75	3	—	O
	1-5	B	50-75	1	—	N1
	5-10	B	75	2	—	O
	1-5	C	50-75	3	—	P
10MHz	1-5	A	50-75	1	—	M
	5-10	A	50-75	2	—	N
	10-15	A	50-75	3	—	N
	1-5	B	50-75	1	—	O
	5-10	B	50-75	2	—	O
	10-12	B	50-75	3	—	P
15MHz	1-5	C	50-75	1	—	P
	1-5	A	50-75	1	—	N
	5-10	A	50	2	—	N
	1-5	B	50-75	1	—	O
	5-8	B	50	2	—	O
	1-4	C	50	1	—	P
20MHz	1-5	A	50	1	—	N
	5-8	A	50	2	—	O
	1-5	B	50	1	—	P
	5-8	B	50	2	—	P
25MHz	1-5	A	50	1	—	M
	5-8	A	50	2	—	N
	1-5	B	50	1	—	O
50MHz	1-5	A	50	1	—	K3
	5-8	A	50	2	—	N
	1-5	B	50	2	—	O
75MHz	1-5	A	50	1	—	K3
	5-8	A	50	2	—	M
	1-5	B	50	2	—	N
100MHz	1-5	A	50	1	—	K3
	1-5	B	50	2	—	M
125MHz	1-5	A	50	1	—	K3
	1-4	B	50	2	—	M
150MHz	1-5	A	50	1	—	K3
	1-3	B	50	2	—	M

Allen Avionics

2727 Clinton Street , River Grove, IL 60171

Phone: (708) 453-3238

E-Mail: Sales@AllenAvionics.com