Band Reject - Custom LC Filter

brPrinter

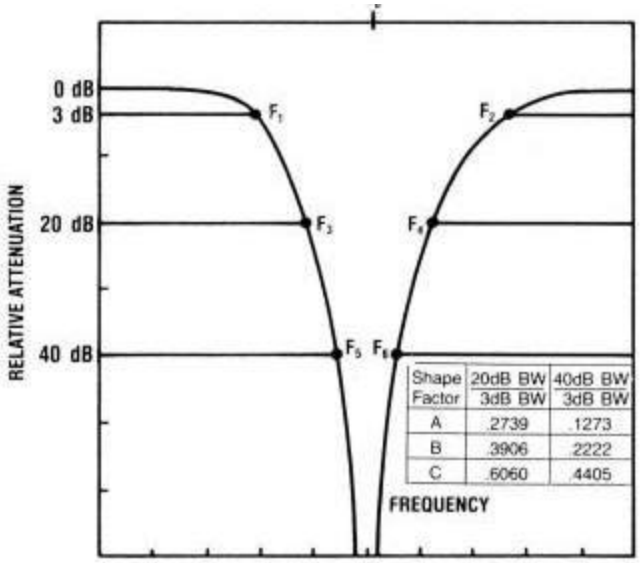
Allen Avionics manufacturers Filters using many design types such as: Butterworth, Chebyshev and Elliptic Functions. The filters tabulated on this page are Chebyshev type. Other types can be designed when their special properties are needed.

- **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.

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.

Metal Cans			
	L	W	H
K3	3.00 x	1.125	x .750
M	3.00 x	1.625	x 1.125
M1	3.00 x	2.000	x 1.250
N	4.00 x	1.500	x 1.250
N1	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



$F_o = \sqrt{F_1F_2} = \sqrt{F_3F_4} = \sqrt{F_5F_6}$

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	—
	5-8	B	1K	2	Z	—
10 KHz	1-5	A	500-2K	1	Y1	N1
	5-10	A	500- 1K	2	Y1	N1
	10-15	A	1K	3	Z	01
	1-5	B	500- 1K	2	Z	—
	5-10	B	1K	3	Z	—
	1-3	C	500- 1K	1	Z	—
25 KHz	1-5	A	500-2K	1	Y	N
	5-10	A	1K	2	Y1	N1
	10-18	A	1K	3	2	01
	1-5	B	500-2K	1	Y1	N1
	5-12	B	1K	2	Z	01
	1-4	C	500-1. 5K	3	Z	—
50 KHz	1-5	A	250-2K	1	Y	N
	5-10	A	500- 1K	2	Y1	N1
	10-25	A	500-600	3	Z	01
	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	—
100 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	—
	5-10	C	500-600	2	Z	—
250 KHz	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
	1-5	C	100-500	1	Y1	N1
	5-8	C	100	2	Z	01
500 KHz	1-5	A	50-500	1	W	K3
	5-15	A	50-250	2	X	M
	10-12	A	100	3	X1	M1
	1-5	B	50-500	1	Y	N
	5-12	B	75-100	2	Y1	N1
	1-5	C	50-250	1	Z	O1
750 KHz	1-5	A	50-200	1	Y	N
	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	—	M
	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
	1-5	C	50-75	1	—	P
15MHz	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

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