

# ALLEN AVIONICS, INC.

## Low Profile Filters - Lowpass and Highpass Custom Built LC Filters - 10 KHz to 5.0 MHz

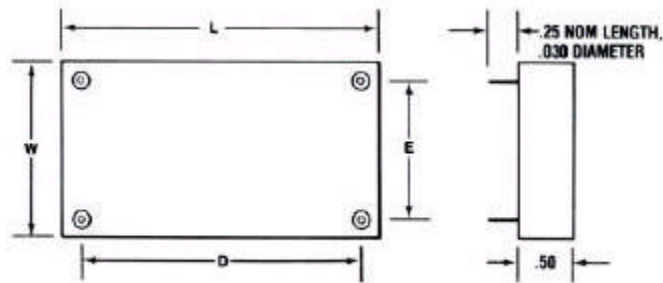
pffh

Allen Avionics manufactures Lowpass Highpass and Bandpass 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. All the filters in the Low Profile Series are a maximum of 1/2 inch high to accommodate modern high density, low profile circuit board design. For Lowpass Highpass and Bandpass Filters above 5 MHz our subminiature filters are a perfect choice.

- ▶ **Frequency Range:** 10 KHz to 5 MHz
- ▶ **Impedance Range:** 50 Ohms to 2.5K Ohms
- ▶ **Construction:** Sealed in metal cans with P.C. terminals
- ▶ **Delivery:** Prototypes can often be delivered in less than 7 days.  
Order any cut-off frequency required  
Call or e-mail factory for special sizes
- ▶ Maximum Ripple: .5dB
- ▶ Maximum Insertion Loss: 1dB

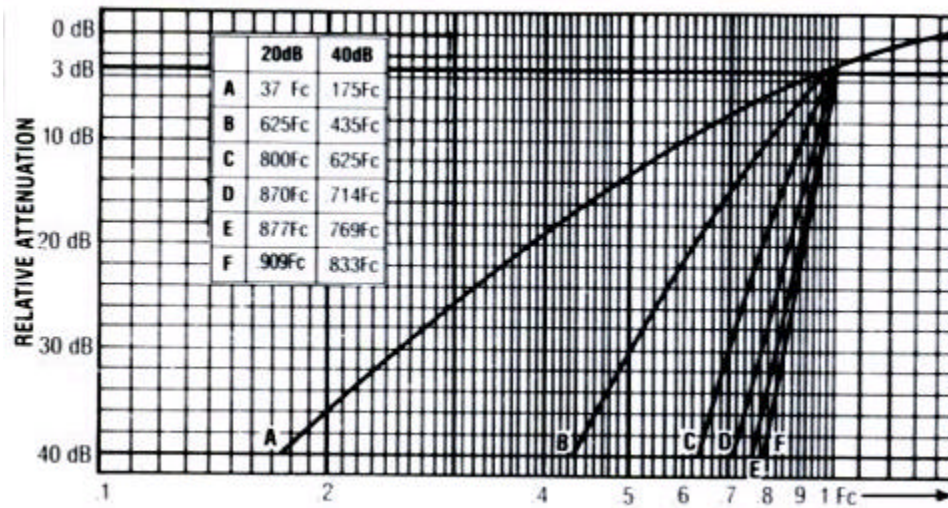
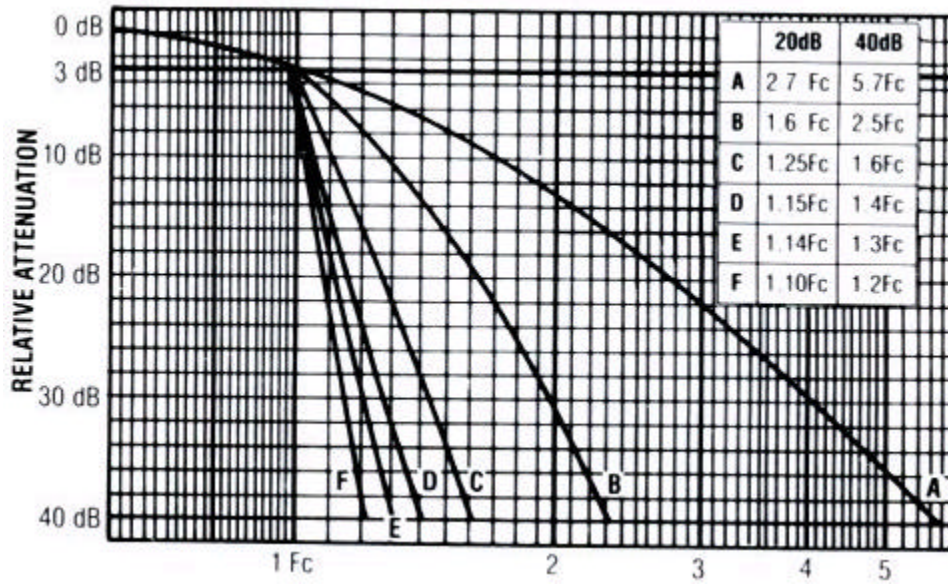
Order any Cut-Off Frequency from 500 Hz to 500 MHz.  
Interpolation between tabulated data allowable.

Mechanical Specifications for Low Profile Filters				
Case	L	W	D	E
C1	4.000	1.500	3.70	1.20
C2	3.000	1.625	2.70	1.30
C3	2.500	1.625	2.20	1.30
C4	2.000	1.625	1.70	1.30
C5	3.000	1.000	2.70	.70
C6	2.500	1.000	2.20	.70
C7	2.000	1.000	1.70	.70
C8	3.000	.750	2.70	.45
C9	2.500	.750	2.20	.45
C10	2.000	.750	1.70	.45
C11	1.500	.750	1.20	.45



Interpolation between Frequencies Listed below is Allowable

Cut-Off Frequency (F <sub>c</sub> ) 3 dB Max.	Impedance Range (Ohms)	Shape Factor						
			A	B	C	D	E	F
10 KHz	600 - 2.5K	case size	C3	C2	C1	--	--	--
25 KHz	500 - 2K		C4	C3	C2	C1	--	--
50 KHz	100 - 2K		C5	C4	C3	C2	C1	--
100 KHz	50 - 600		C6	C5	C4	C3	C2	C1
250 KHz	50 - 250		C7	C6	C5	C4	C3	C2
500 KHz	50 - 100		C8	C7	C6	C5	C4	C3
750 KHz	50 - 100		C9	C8	C7	C6	C5	C4
1.0 MHz	50 - 100		C10	C9	C8	C7	C6	C5
2.5 MHz	50 - 100		C11	C10	C9	C8	C7	C6
5.0 MHz	50 - 100		C11	C10	C9	C8	C7	C6



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