

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

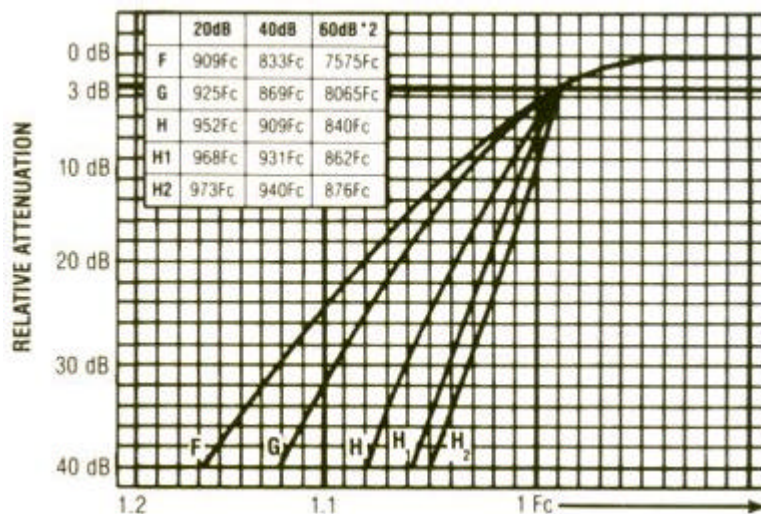
Order any Cut-Off Frequency from 500 Hz to 150 MHz. Interpolation between tabulated data allowable.

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

