

Description

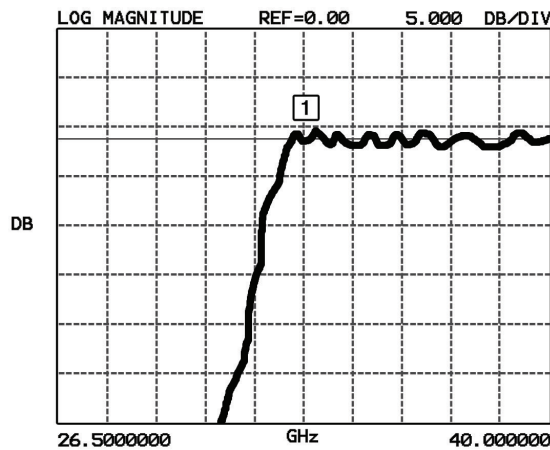
Mi-Wave's 450 Series High Pass Filters use a simple yet effective waveguide cut-off filter technique. This design is useful for eliminating unwanted side bands in up-converters and out-of-band frequencies in communication systems. These filters

- *Low Cost*
- *Wide Bandwidths*
- *Low Insertion Loss*
- *Low VSWR in Band*

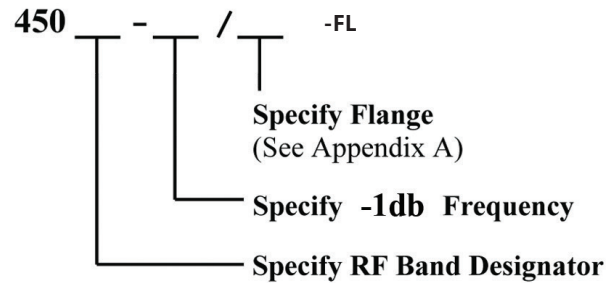
are small in size and compact by design. The 450 Series can be designed for any frequency range from 12.4 to 220 GHz. Low insertion losses from 0.15 dB and cut off rejections of up to 80 dB are possible. Consult Mi-Wave for dimensions due to the wide ranged of waveguide sizes and frequency ranges.

Applications

Side Band Filters
 Frequency Diplexers
 Telecommunications Systems



Ordering Information



Technical Specifications (typical)

| Min Passband Frequency | Passband Insertion Loss | Min Rejection Frequency | Max Rejection Frequency | Rejection | Waveguide Port |
|------------------------|-------------------------|-------------------------|-------------------------|-----------|-----------------|
| 130GHz | 2.5 dB | DC | 126Ghz | 80dB | WR-06 Waveguide |
| 104GHz | 2.5 dB | DC | 100Ghz | 40dB | WR-08 Waveguide |
| 92GHz | 1.0 dB | DC | 86Ghz | 40dB | WR-10 Waveguide |
| 90GHz | 1.0 dB | DC | 84Ghz | 40dB | WR-10 Waveguide |
| 84GHz | 0.9 dB | DC | 80Ghz | 40dB | WR-10 Waveguide |
| 82GHz | 1.0 dB | DC | 80Ghz | 40dB | WR-10 Waveguide |
| 81GHz | 1.0 dB | DC | 77Ghz | 40dB | WR-12 Waveguide |
| 86GHz | 1.0 dB | DC | 82Ghz | 40dB | WR-10 Waveguide |
| 75GHz | 1.0 dB | DC | 70Ghz | 40dB | WR-10 Waveguide |
| 71GHz | 0.8 dB | DC | 67Ghz | 40dB | WR-12 Waveguide |
| 70GHz | 0.5 dB | DC | 66Ghz | 40dB | WR-12 Waveguide |
| 67GHz | 1.0 dB | DC | 65Ghz | 40dB | WR-12 Waveguide |
| 57GHz | 0.8 dB | DC | 53Ghz | 40dB | WR-12 Waveguide |
| 60GHz | 1.0 dB | DC | 55Ghz | 40dB | WR-12 Waveguide |
| 63GHz | 0.8 dB | DC | 59Ghz | 40dB | WR-12 Waveguide |
| 75GHz | 1.0 dB | DC | 71Ghz | 40dB | WR-15 Waveguide |
| 63GHz | 1.0 dB | DC | 57Ghz | 40dB | WR-15 Waveguide |
| 57GHz | 0.8 dB | DC | 53Ghz | 40dB | WR-15 Waveguide |
| 57GHz | 1.0 dB | DC | 56Ghz | 20dB | WR-15 Waveguide |
| 50GHz | 1.0 dB | DC | 46Ghz | 40dB | WR-15 Waveguide |
| 35.5GHz | 1.0 dB | DC | 30.5Ghz | 30dB | WR-22 Waveguide |
| 34GHz | 2.0 dB | DC | 31Ghz | 40dB | WR-22 Waveguide |
| 30GHz | .5 dB | DC | 26Ghz | 40dB | WR-28 Waveguide |
| 29GHz | .5 dB | DC | 25Ghz | 40dB | WR-28 Waveguide |
| 26.5GHz | .5 dB | DC | 22.5Ghz | 40dB | WR-28 Waveguide |