

## Description

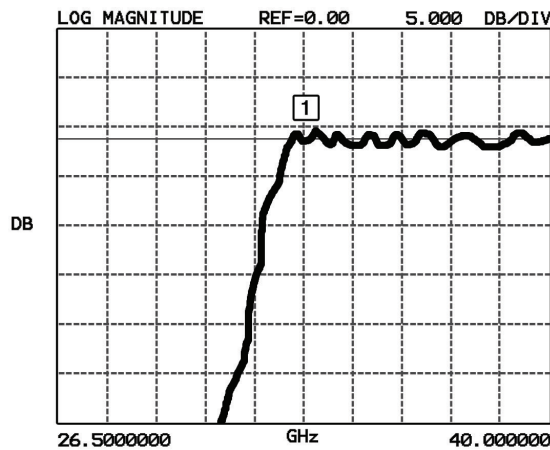
Mi-Wave's 450 Series High Pass Filters use a simple yet effective waveguide cut-off filter technique. This design is useful for eliminating unwanted side bands in up-converters and out-of-band frequencies in communication systems. These filters

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

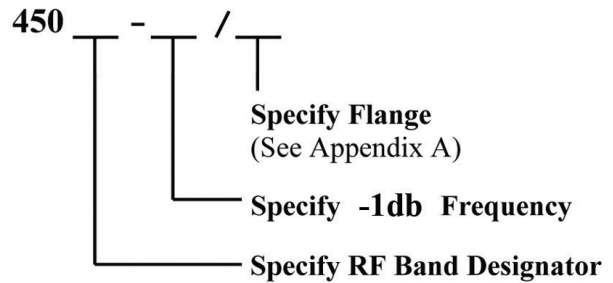
are small in size and compact by design. The 450 Series can be designed for any frequency range from 12.4 to 220 GHz. Low insertion losses from 0.15 dB and cut off rejections of up to 80 dB are possible. Consult Mi-Wave for dimensions due to the wide ranged of waveguide sizes and frequency ranges.

## 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