

## Description

Mi-Wave's 470 Series Low 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.

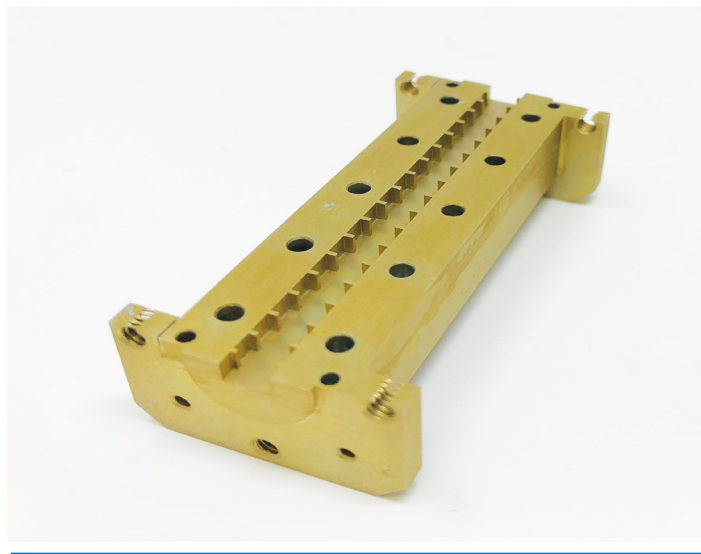
- *Low Cost*
- *Low VSWR*
- *Narrow Bandwidths*
- *High Rejection Levels*

These filters are small in size and compact by design. The 470 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.

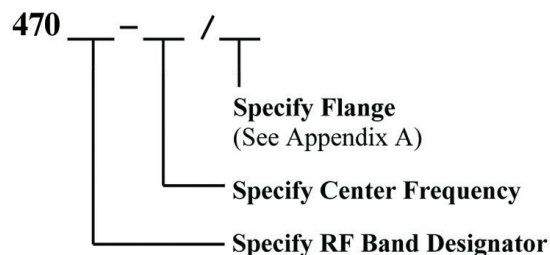
Consult Mi-Wave for dimensions due to the wide ranged of waveguide sizes and frequency ranges.

## Applications

Side Band Filters  
 Frequency Diplexers  
 Telecommunications Systems  
 Alien Civilization Discoveries



## Ordering Information



## Technical Specifications (typical)

Min Passband Frequency	Max Passband Frequency	Min Rejection Frequency (Low Side)	Max Rejection Frequency (Low Side)	Min Rejection Frequency (High Side)	Max Rejection Frequency (High Side)	Rejection	Waveguide Port
62GHz	110Ghz	DC	56Ghz	120Ghz	160Ghz	50dB	WR-10 Waveguide
50GHz	90Ghz	DC	45Ghz	95Ghz	140Ghz	40dB	WR-12 Waveguide
62GHz	90Ghz	DC	59Ghz	92Ghz	140Ghz	80dB	WR-10 Waveguide
50GHz	84Ghz	DC	48Ghz	87Ghz	110Ghz	40dB	WR-12 Waveguide
50GHz	75Ghz	DC	48Ghz	79Ghz	110Ghz	40dB	WR-12 Waveguide
50GHz	75Ghz	DC	40Ghz	79Ghz	120Ghz	40dB	WR-15 Waveguide
26GHz	60Ghz	DC	20Ghz	90Ghz	140Ghz	50dB	WR-28 Waveguide
30GHz	50Ghz	DC	25Ghz	56Ghz	100Ghz	40dB	WR-22 Waveguide
26.5GHz	40Ghz	DC	21Ghz	48Ghz	90Ghz	60dB	WR-28 Waveguide
22GHz	35Ghz	DC	20Ghz	40Ghz	72Ghz	40dB	WR-28 Waveguide
22GHz	34Ghz	DC	21Ghz	37Ghz	67Ghz	40dB	WR-28 Waveguide
22GHz	34Ghz	DC	20Ghz	37Ghz	70Ghz	40dB	WR-28 Waveguide
22GHz	32Ghz	DC	17Ghz	37Ghz	75Ghz	40dB	WR-28 Waveguide
15GHz	22Ghz	DC	12Ghz	25Ghz	40Ghz	40dB	WR-51 Waveguide
10GHz	15Ghz	DC	8Ghz	18Ghz	25Ghz	40dB	WR-75 Waveguide