

Description

Mi-Wave's 460 Series Band Pass Filters are used for narrow and wide band applications. Pass bands are typically from 1% to 10%. This design is well suited for frequency diplexers used in communication systems or any application where narrow bandwidths are required.

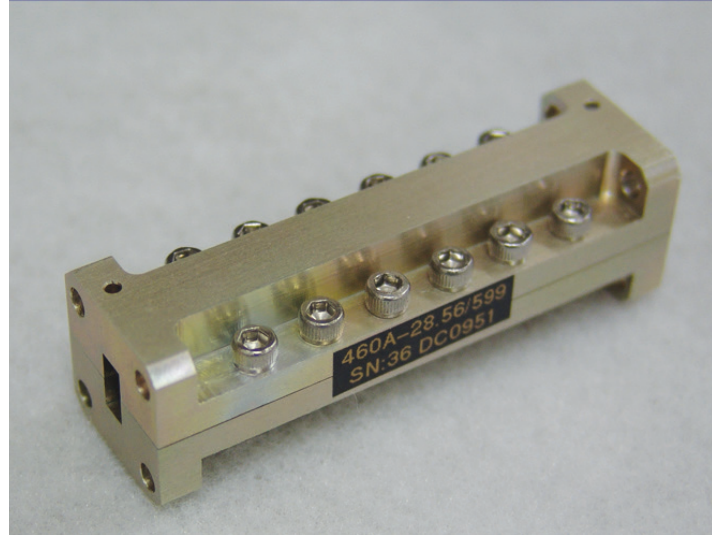
- *Low Cost*
- *Low VSWR*
- *Narrow Bandwidths*
- *High Rejection Levels*
- *Low In-band Insertion*

Insertion losses are typically in the 0.8 dB to 2.0 dB area depending upon rejection levels. The 460 Series Band pass filter can be designed from 8 to 140GHz.

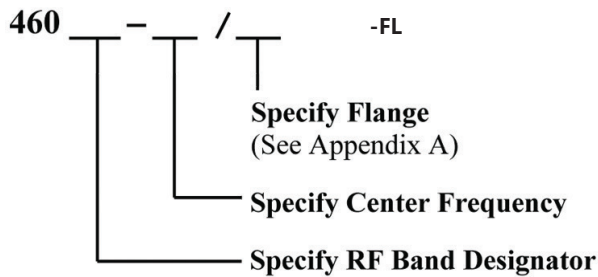
Please consult Mi-Wave for further dimensions and specific technical data.

Applications

Side Band Filters
Frequency Diplexers
Telecommunications Systems



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
125GHz	150Ghz	DC	100Ghz	163Ghz	250Ghz	40dB	WR-06 Waveguide
105GHz	140Ghz	DC	94Ghz	145Ghz	180Ghz	40dB	WR-08 Waveguide
109GHz	140Ghz	DC	94Ghz	145Ghz	160Ghz	40dB	WR-08 Waveguide
119.5GHz	120.5Ghz	DC	17Ghz	123Ghz	130Ghz	40dB	WR-08 Waveguide
98GHz	102Ghz	DC	95Ghz	105Ghz	110Ghz	40dB	WR-10 Waveguide
92GHz	100Ghz	DC	88Ghz	104Ghz	110Ghz	50dB	WR-10 Waveguide
90GHz	98Ghz	DC	88Ghz	102Ghz	110Ghz	25dB	WR-10 Waveguide
92GHz	96Ghz	DC	90Ghz	98Ghz	130Ghz	40dB	WR-10 Waveguide
92.5GHz	95.5Ghz	DC	91.5Ghz	97Ghz	97.5Ghz	20dB	WR-10 Waveguide
93.2GHz	95.2Ghz	DC	91Ghz	98.5Ghz	105Ghz	40dB	WR-10 Waveguide
70GHz	90Ghz	DC	60Ghz	93.3Ghz	130Ghz	40dB	WR-12 Waveguide
81GHz	87Ghz	DC	78Ghz	90Ghz	120Ghz	30dB	WR-12 Waveguide
82.5GHz	87Ghz	DC	80Ghz	90Ghz	120Ghz	40dB	WR-12 Waveguide
81GHz	86Ghz	DC	78Ghz	88Ghz	120Ghz	50dB	WR-10 Waveguide
81GHz	86Ghz	DC	78Ghz	90Ghz	120Ghz	50dB	WR-12 Waveguide
82.5GHz	85.5Ghz	DC	79Ghz	93.5Ghz	110Ghz	40dB	WR-10 Waveguide
76GHz	81Ghz	DC	73Ghz	84Ghz	105Ghz	40dB	WR-12 Waveguide
75GHz	78Ghz	DC	71Ghz	82Ghz	100Ghz	50dB	WR-12 Waveguide
76GHz	77Ghz	DC	74.5Ghz	78.5Ghz	90Ghz	50dB	WR-10 Waveguide
71GHz	76Ghz	DC	67Ghz	81Ghz	105Ghz	50dB	WR-10 Waveguide
71GHz	76Ghz	DC	67Ghz	81Ghz	105Ghz	50dB	WR-12 Waveguide
73GHz	76Ghz	DC	67Ghz	82Ghz	100Ghz	40dB	WR-12 Waveguide
74GHz	76Ghz	DC	70Ghz	80Ghz	100Ghz	40dB	WR-12 Waveguide
50GHz	75Ghz	DC	44Ghz	80Ghz	110Ghz	40dB	WR-15 Waveguide
73GHz	74Ghz	DC	70Ghz	76.6Ghz	95Ghz	30dB	WR-12 Waveguide
50GHz	67Ghz	DC	46Ghz	73Ghz	110Ghz	40dB	WR-15 Waveguide
55GHz	67Ghz	DC	51Ghz	71Ghz	95Ghz	40dB	WR-15 Waveguide
63GHz	67Ghz	DC	57Ghz	73Ghz	95Ghz	40dB	WR-12 Waveguide
61GHz	66Ghz	DC	59.5Ghz	69.5Ghz	80Ghz	40dB	WR-15 Waveguide
63.8GHz	65.8Ghz	DC	58.8Ghz	70.8Ghz	74.8Ghz	50dB	WR-15 Waveguide
59GHz	65Ghz	DC	57.5Ghz	67.5Ghz	75Ghz	40dB	WR-15 Waveguide
61GHz	64Ghz	DC	57.5Ghz	67.5Ghz	75Ghz	40dB	WR-15 Waveguide
61.64GHz	63.64Ghz	DC	56.64Ghz	67.64Ghz	71.64Ghz	50dB	WR-15 Waveguide
58.6GHz	63.4Ghz	DC	56Ghz	68Ghz	80Ghz	50dB	WR-15 Waveguide
61.7GHz	62.7Ghz	DC	60Ghz	65Ghz	80Ghz	40dB	WR-15 Waveguide
57.5GHz	62.5Ghz	DC	55Ghz	67Ghz	78Ghz	25dB	WR-15 Waveguide
60GHz	62Ghz	DC	59Ghz	63Ghz	80Ghz	30dB	WR-15 Waveguide
59.48GHz	61.48Ghz	DC	54.48Ghz	66.48Ghz	69.48Ghz	50dB	WR-15 Waveguide
59GHz	61Ghz	DC	57Ghz	62Ghz	78Ghz	25dB	WR-15 Waveguide

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
36GHz	60Ghz	DC	29Ghz	66Ghz	120Ghz	40dB	WR-19 Waveguide
47GHz	59Ghz	DC	44Ghz	63Ghz	78Ghz	50dB	WR-15 Waveguide
47GHz	57Ghz	DC	44Ghz	62Ghz	85Ghz	40dB	WR-15 Waveguide
54.5GHz	56.5Ghz	DC	53Ghz	57Ghz	70Ghz	50dB	WR-15 Waveguide
55.75GHz	56.25Ghz	DC	54.75Ghz	57.5Ghz	70Ghz	40dB	WR-15 Waveguide
51GHz	55Ghz	DC	45Ghz	61Ghz	80Ghz	40dB	WR-15 Waveguide
53.5GHz	54.5Ghz	DC	52Ghz	55Ghz	65Ghz	40dB	WR-15 Waveguide
51.5GHz	54.5Ghz	DC	44Ghz	62Ghz	70Ghz	40dB	WR-15 Waveguide
49.75GHz	50.25Ghz	DC	49Ghz	51Ghz	60Ghz	30dB	WR-15 Waveguide
34GHz	67Ghz	DC	30Ghz	69Ghz	120Ghz	40dB	WR-19 Waveguide
43GHz	46Ghz	DC	42Ghz	47Ghz	55Ghz	30dB	WR-22 Waveguide
30GHz	50Ghz	DC	25Ghz	56Ghz	100Ghz	40dB	WR-22 Waveguide
33GHz	50Ghz	DC	25Ghz	56Ghz	60Ghz	40dB	WR-22 Waveguide
40GHz	50Ghz	DC	34Ghz	57Ghz	65Ghz	60dB	WR-22 Waveguide
30GHz	45Ghz	DC	28Ghz	47Ghz	90Ghz	40dB	WR-22 Waveguide
22GHz	42Ghz	DC	20Ghz	48Ghz	95Ghz	60dB	WR-28 Waveguide
22GHz	38Ghz	DC	19.6Ghz	41Ghz	45Ghz	50dB	WR-28 Waveguide
32GHz	38Ghz	DC	28Ghz	40Ghz	46Ghz	40dB	WR-28 Waveguide
33GHz	37Ghz	DC	31Ghz	39Ghz	46Ghz	40dB	WR-28 Waveguide
35.26GHz	36.26Ghz	DC	33.9Ghz	38Ghz	45Ghz	40dB	WR-28 Waveguide
22GHz	35Ghz	DC	20Ghz	40Ghz	72Ghz	40dB	WR-28 Waveguide
29GHz	35Ghz	DC	27Ghz	37Ghz	45Ghz	40dB	WR-28 Waveguide
27.5GHz	32.5Ghz	DC	23.5Ghz	36.5Ghz	41.5Ghz	40dB	WR-28 Waveguide
22GHz	32Ghz	DC	18Ghz	37Ghz	75Ghz	40dB	WR-28 Waveguide