

WR-112 Bandpass Waveguide Filter With a 7.9 GHz to 8.4 GHz Pass Band

The FMW112F001 is a WR-112 bandpass filter with UG Cover and UG Grooved Flanges. The pass band is 500 MHz, or 7.9 to 8.4 GHz. Implementing a waveguide design, the filter has excellent rejection of 60 dB minimum at 7.3 GHz and 50 dB minimum at 9.1 GHz, or about 600 MHz and 700 MHz from the band edges. It has a maximum insertion loss of 0.2 dB.



Electrical Specifications (Values at 25°C, sea level)

Description	Min	Typ	Max	Units
Passband Frequency Range	7.9	-	8.4	GHz
Insertion Loss			0.2	dB
Passband VSWR			1.3:1	
Input Power			300	Watts
Peak Power			30	kWatts
L-Band Rejection 7.3 GHz	60			dB
H-Band Rejection 9.1 GHz	50			dB

Mechanical Specifications

Size

Length	8.66 in [219.96 mm]
Width	1.88 in [47.75 mm]
Height	1.88 in [47.75 mm]
Weight	1.13 lbs [512.56 g]

Flange 1

Waveguide Size	WR-112
Flange Material and Plating	Aluminum, Silver
Flange 1 Type	UG Cover

Flange 2

Waveguide Size	WR-112
Flange Material and Plating	Aluminum, Silver
Flange 2 Type	UG Grooved

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at 25 °C, sea level

Configuration:

- Passband: Band Pass
- Flange 1: WR-112
- Flange 2: WR-112

Features:

- Passband of 500 MHz
- 7.9 GHz to 8.4 GHz Passband
- WR-112 UG Cover and Grooved Flanges
- Min rejection 60 dB at 7.3 GHz
- Min rejection 50 dB at 9.1 GHz
- Maximum Insertion Loss of 0.2 dB
- Max Power (CW) 300 Watts

Applications:

- Radar Systems
- Test and Measurement
- Satellite Communications
- Instrumentation
- Automotive Radar Systems

Fairview Microwave
 301 Leora Ln., Suite 100
 Lewisville, TX 75056
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

WR-112 Bandpass Waveguide Filter With a 7.9 GHz to 8.4 GHz Pass Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-112 Bandpass Waveguide Filter With a 7.9 GHz to 8.4 GHz Pass Band FMW112F001](#)

URL: <https://www.fairviewmicrowave.com/wr-112-waveguide-bandpass-filter-ug-pass-band-fmw112f001-p.aspx>

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