

WR-90 Bandpass Waveguide Filter With a 8.9 GHz to 9.9 GHz Pass Band

The FMW90F001 is a WR-90 bandpass filter with UG Cover and UG Grooved Flanges. The pass band is 1000 MHz, or 8.9 to 9.9 GHz. Implementing a waveguide design, the filter has excellent rejection of 60 dB minimum at 7.9 GHz and 60 dB minimum at 11 GHz, or about 1000 MHz and 1100 MHz from the band edges. It has a maximum insertion loss of 0.3 dB.

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

Description	Min	Typ	Max	Units
Passband Frequency Range	8.9	-	9.9	GHz
Insertion Loss			0.3	dB
Passband VSWR			1.25:1	
Input Power			200	Watts
Peak Power			40	kWatts
L-Band Rejection 7.9 GHz	60			dB
H-Band Rejection 11 GHz	60			dB

Mechanical Specifications

Size

Length	8.27 in [210.06 mm]
Width	1.63 in [41.4 mm]
Height	1.63 in [41.4 mm]
Weight	0.96 lbs [435.45 g]

Flange 1

Waveguide Size	WR-90
Flange Material and Plating	Aluminum, Silver
Flange 1 Type	UG Cover

Flange 2

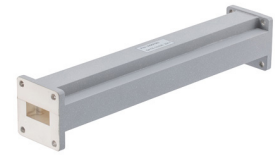
Waveguide Size	WR-90
Flange Material and Plating	Aluminum, Silver
Flange 2 Type	UG Grooved

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-90
- Flange 2: WR-90

Features:

- Passband of 1000 MHz
- 8.9 GHz to 9.9 GHz Passband
- WR-90 UG Cover and Grooved Flanges
- Min rejection 60 dB at 7.9 GHz
- Min rejection 60 dB at 11 GHz
- Maximum Insertion Loss of 0.3 dB
- Max Power (CW) 200 Watts

Applications:

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

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WR-90 Bandpass Waveguide Filter With a 8.9 GHz to 9.9 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-90 Bandpass Waveguide Filter With a 8.9 GHz to 9.9 GHz Pass Band FMW90F001](#)

URL: <https://www.fairviewmicrowave.com/wr-90-waveguide-bandpass-filter-ug-pass-band-fmw90f001-p.aspx>

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