

WR-19 Bandpass Waveguide Filter With a 40 GHz to 50 GHz Pass Band

The FMW19F001 is a WR-90 bandpass filter with UG Cover Flanges. The pass band is 10 GHz, or 40 to 50 GHz. Implementing a waveguide design, the filter has excellent rejection of 50 dB minimum at DC to 37 GHz and 45 dB minimum at 53 to 67 GHz, or about 3000 MHz from the band edges. It has a maximum insertion loss of 1 dB.

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

Description	Min	Typ	Max	Units
Passband Frequency Range	40	-	50	GHz
Insertion Loss			1	dB
Passband VSWR			1.4:1	
Input Power			25	Watts
Peak Power			600	Watts
L-Band Rejection 37 GHz	50			dB
H-Band Rejection 53 GHz	45			dB

Mechanical Specifications

Size

Length	1.18 in [29.97 mm]
Width	1.125 in [28.58 mm]
Height	1.125 in [28.58 mm]
Weight	0.1 lbs [45.36 g]

Flange 1

Waveguide Size	WR-19
Flange Material and Plating	Copper, Gold
Flange 1 Type	UG Cover

Flange 2

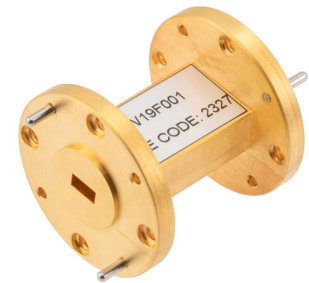
Waveguide Size	WR-19
Flange Material and Plating	Copper, Gold
Flange 2 Type	UG Cover

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-19
- Flange 2: WR-19

Features:

- Passband of 10 GHz
- 40 GHz to 50 GHz Passband
- WR-19 UG Cover Flanges
- Min rejection 50 dB at DC to 37 GHz
- Min rejection 45 dB at 53 to 67 GHz
- Maximum Insertion Loss of 1 dB
- Max Power (CW) 25 Watts

Applications:

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

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WR-19 Bandpass Waveguide Filter With a 40 GHz to 50 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-19 Bandpass Waveguide Filter With a 40 GHz to 50 GHz Pass Band FMW19F001](#)

URL: <https://www.fairviewmicrowave.com/wr-19-waveguide-bandpass-filter-ug-pass-band-fmw19f001-p.aspx>

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