

WR-28 Highpass Waveguide Filter With a 30 GHz to 40 GHz Pass Band

The FMW28F012 is a WR-28 highpass filter with UG Cover Flanges. The pass band is 10 GHz, or 30 to 40 GHz. Implementing a waveguide design, the filter has excellent rejection of 50 dB minimum at 22 GHz, or about 8000 MHz from the band edge. It has a maximum insertion loss of 0.5 dB.

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

Description	Min	Typ	Max	Units
H-Passband Frequency Range	30	-	40	GHz
Insertion Loss			0.5	dB
High Passband VSWR			1.3:1	
Input Power			50	Watts
Peak Power			2	kWatts
L-band Rejection at 22 GHz	50			dB

Mechanical Specifications

Size

Length	1.57 in [39.88 mm]
Width	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	0.7 lbs [317.51 g]

Flange 1

Waveguide Size	WR-28
Flange Material and Plating	Copper, Gold
Flange 1 Type	UG Cover

Flange 2

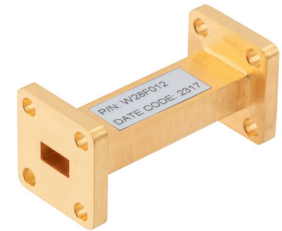
Waveguide Size	WR-28
Flange Material and Plating	Copper, Gold
Flange 2 Type	UG Cover

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

Plotted and Other Data

Notes:

- Values at 25 °C, sea level



Configuration:

- Passband: High Pass
- Flange 1: WR-28
- Flange 2: WR-28

Features:

- Passband of 10 GHz
- 30 GHz to 40 GHz Passband
- WR-28 UG Cover Flanges
- Min rejection 50 dB at 22 GHz
- Maximum Insertion Loss of 0.5 dB
- Max Power (CW) 50 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-28 Highpass Waveguide Filter With a 30 GHz to 40 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-28 Highpass Waveguide Filter With a 30 GHz to 40 GHz Pass Band FMW28F012](#)

URL: <https://www.fairviewmicrowave.com/wr-28-highpass-waveguide-filter-ug-pass-band-fmw28f012-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



