

WR-42 Highpass Waveguide Filter With a 20 GHz to 26.7 GHz Pass Band

The FMW42F012 is a WR-42 highpass filter with UG Cover Flanges. The pass band is 6700 MHz, or 20 to 26.7 GHz. Implementing a waveguide design, the filter has excellent rejection of 50 dB minimum at 17 GHz, or about 3000 MHz from the band edge. It has a maximum insertion loss of 0.3 dB.

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

| Description | Min | Typ | Max | Units |
|----------------------------|-----|-----|--------|--------|
| H-Passband Frequency Range | 20 | - | 26.7 | GHz |
| Insertion Loss | | | 0.3 | dB |
| High Passband VSWR | | | 1.25:1 | |
| Input Power | | | 100 | Watts |
| Peak Power | | | 3 | kWatts |
| L-band Rejection at 17 GHz | 50 | | | dB |

Mechanical Specifications

Size

| | |
|--------|--------------------|
| Length | 2.95 in [74.93 mm] |
| Width | 0.88 in [22.35 mm] |
| Height | 0.88 in [22.35 mm] |
| Weight | 0.06 lbs [27.22 g] |

Flange 1

| | |
|-----------------------------|------------------|
| Waveguide Size | WR-42 |
| Flange Material and Plating | Aluminum, Silver |
| Flange 1 Type | UG Cover |

Flange 2

| | |
|-----------------------------|------------------|
| Waveguide Size | WR-42 |
| Flange Material and Plating | Aluminum, Silver |
| 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-42
- Flange 2: WR-42

Features:

- Passband of 6700 MHz
- 20 GHz to 26.7 GHz Passband
- WR-42 UG Cover Flanges
- Min rejection 50 dB at 17 GHz
- Maximum Insertion Loss of 0.3 dB
- Max Power (CW) 100 Watts

Applications:

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

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WR-42 Highpass Waveguide Filter With a 20 GHz to 26.7 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-42 Highpass Waveguide Filter With a 20 GHz to 26.7 GHz Pass Band FMW42F012](#)

URL: <https://www.fairviewmicrowave.com/wr-42-highpass-waveguide-filter-ug-pass-band-fmw42f012-p.aspx>

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