

## WR-8 Waveguide Probe Antenna Operating from 90 GHz to 140 GHz, 6.5 dBi Nominal Gain, UG-387/U-M Flange

The FMWPR008-7 from Fairview Microwave is a waveguide probe antenna, often known as a waveguide horn, and is just one of several waveguide components we provide. This horn antenna is manufactured with a WR-8 waveguide size. Our WR-8 probe antenna is constructed with a UG-387/U-M flange and built to precise RF/microwave/millimeter waveguide horn antenna design specifications.

Fairview Microwave's WR-8 waveguide antenna with UG-387/U-M flange has a 6.5 dBi nominal gain and is currently available for purchase. Our WR-8 6.5 dBi gain probe antenna has a minimum frequency of 90 GHz and a maximum frequency of 140 GHz. This waveguide WR-8 probe horn antenna has a typical vertical beam width of 60 degrees and a horizontal beam width of 115 degrees at 3 dB.

The FMWPR008-7 waveguide horn antenna with linear polarization has a typical VSWR of 1.5:1 and is suitable for test and measurement industries. This high-quality 6.5 dBi gain WR-8 probe antenna has a copper body with gold plating. The waveguide horn with a UG-387/U-M flange can operate at temperatures ranging from -40 to 85 degrees C.

In the given datasheet specifications, you can find more information about this WR-8 probe waveguide horn with a 90–140 GHz frequency range. This waveguide probe antenna is part of over one million RF, microwave, and millimeter wave components in stock. Our part number FMWPR008-7 probe antenna is ready for same-day purchase and shipping worldwide. Fairview Microwave also stocks a wide array of other waveguide products that ship the same day from our warehouse for all your RF/microwave and millimeter waveguide component needs.

### Configuration

Design WR-8 Probe  
Polarization Linear

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	90		140	GHz
Nominal Gain		6.5		dBi
Horizontal 3dB Beam Width		115		Deg
Vertical 3dB Beam Width		60		Deg
VSWR		1.5:1		

### Mechanical Specifications

#### Size

Length 1 in [25.4 mm]  
Width/Diameter 0.75 in [19.05 mm]  
Height 0.75 in [19.05 mm]  
Weight 0.003 lbs [1.36 g]

#### Waveguide Interface

Waveguide Size WR-8  
Flange Designation UG-387/U-M  
Body Material and Plating Copper, Gold



### Features:

- WR-8 rectangular waveguide interface
- Precisely machined
- Gold plated copper Body
- Linear polarization
- 90 GHz to 140 GHz, gain 6.5 dBi
- UG-387/U-Mod flange
- Min. VSWR < 1.5 :1
- Excellent repeatability

### Applications:

- Antenna measurements
- Microwave radio systems
- Wireless communications
- Radome, automotive, satellite antenna testing
- Laboratory use
- Near-field measurements

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](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

**Environmental Specifications**

**Temperature**

Operating Range -40 to 85 deg C

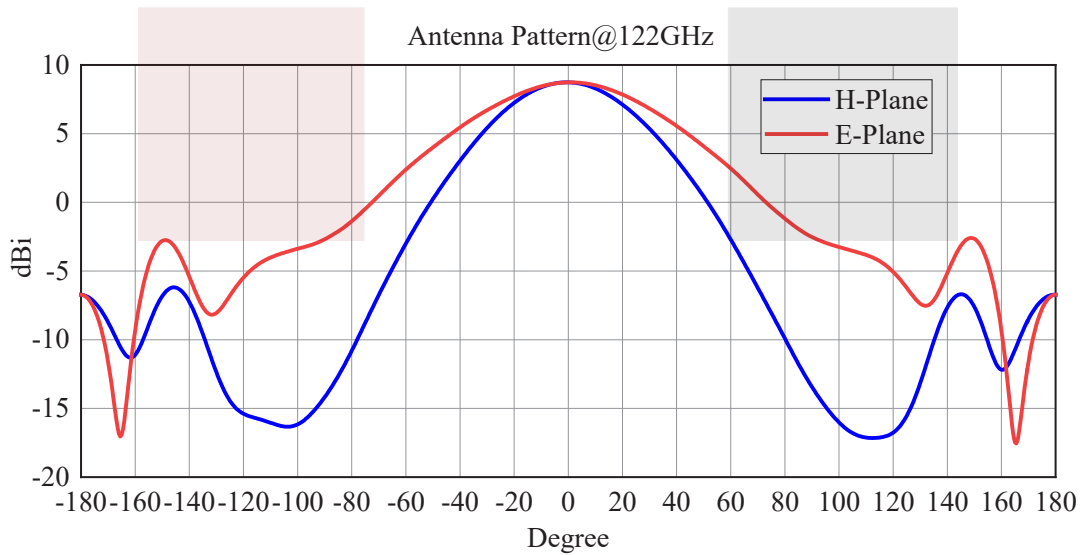
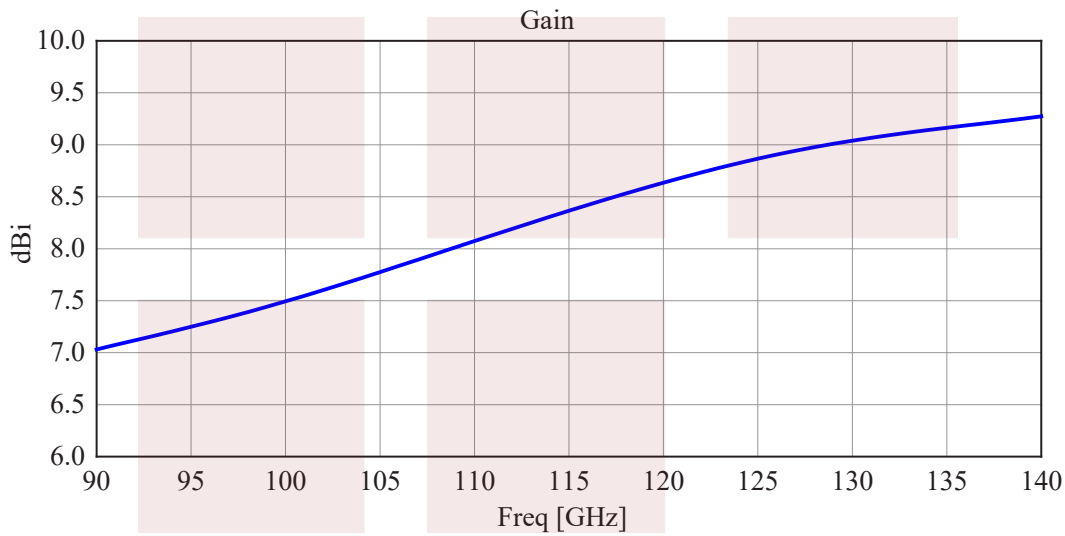
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

**Typical Performance Data**

Gain:



WR-8 Waveguide Probe Antenna Operating from 90 GHz to 140 GHz, 6.5 dBi Nominal Gain, UG-387/U-M Flange 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-8 Waveguide Probe Antenna Operating from 90 GHz to 140 GHz, 6.5 dBi Nominal Gain, UG-387/U-M Flange FMWPR008-7](#)

URL: <https://www.fairviewmicrowave.com/wr-8-waveguide-standard-gain-horn-6.5-dbi-ug-387-m-fmwpr008-7-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.



