

## WR-12 Waveguide Probe Antenna Operating from 60 GHz to 90 GHz, 6.5 dBi Nominal Gain, UG-387/U-M Flange

The FMWPR012-7 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-12 waveguide size. Our WR-12 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-12 waveguide antenna with UG-387/U-M flange has a 6.5 dBi nominal gain and is currently available for purchase. Our WR-12 6.5 dBi gain probe antenna has a minimum frequency of 60 GHz and a maximum frequency of 90 GHz. This waveguide WR-12 probe horn antenna has a typical vertical beam width of 60 degrees and a horizontal beam width of 115 degrees at 3 dB.

The FMWPR012-7 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-12 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-12 probe waveguide horn with a 60–90 GHz frequency range. This waveguide probe antenna is part of over one million RF, microwave, and millimeter wave components in stock. Our part number FMWPR012-7 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-12 Probe
Polarization	Linear

### Electrical Specifications

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

### Mechanical Specifications

<b>Size</b>	
Length	1.2 in [30.48 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-12
Flange Designation	UG-387/U-M
Body Material and Plating	Copper, Gold



### Features:

- WR-12 rectangular waveguide interface
- Precisely machined
- Gold plated copper Body
- Linear polarization
- 60 GHz to 90 GHz, gain 6.5 dBi
- UG-387/U round cover 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

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**Environmental Specifications**

**Temperature**

Operating Range -40 to 85 deg C

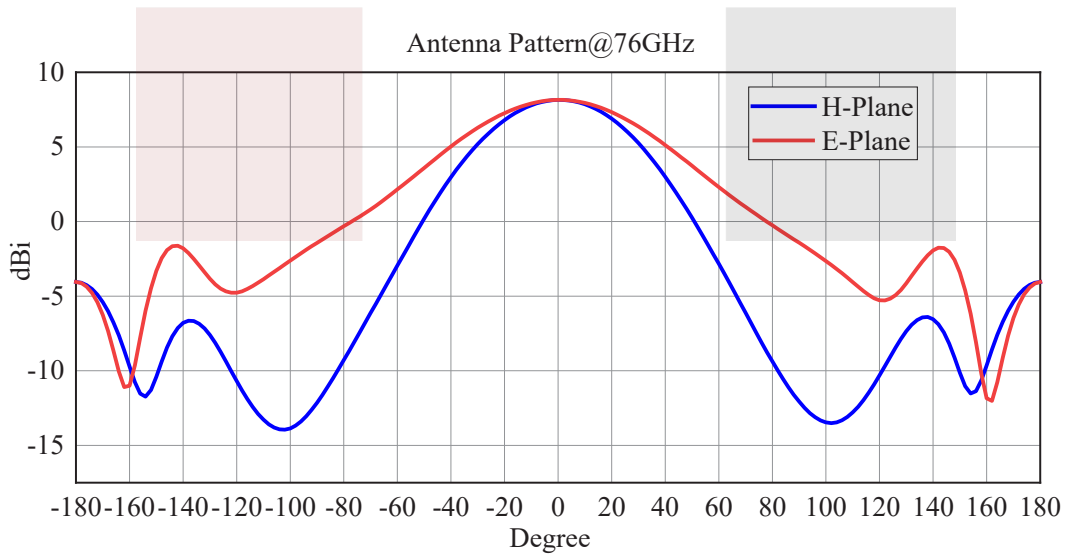
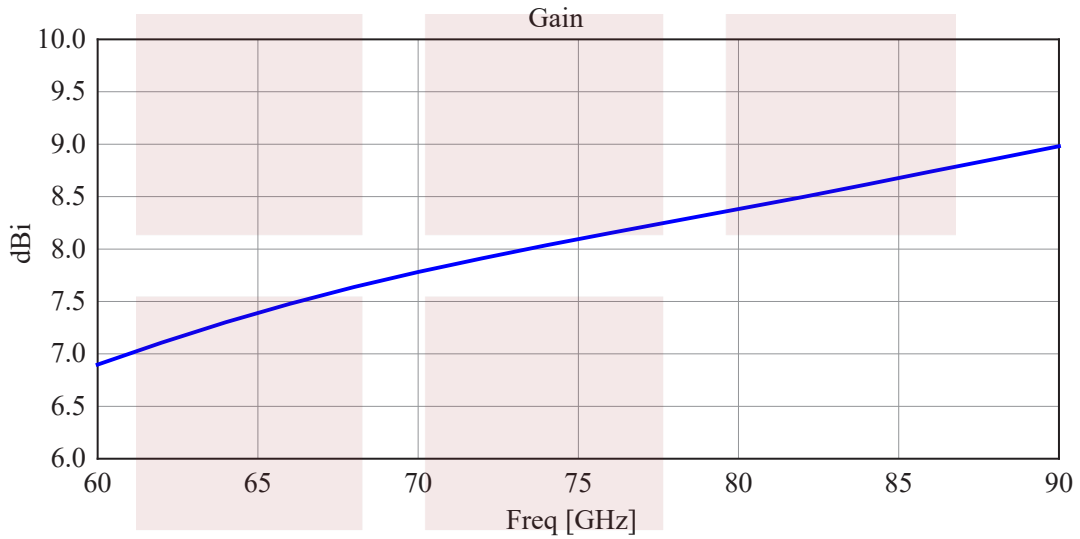
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

**Typical Performance Data**

Gain:



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For additional information on this product, please click the following link: [WR-12 Waveguide Probe Antenna Operating from 60 GHz to 90 GHz, 6.5 dBi Nominal Gain, UG-387/U-M Flange FMWPR012-7](#)

URL: <https://www.fairviewmicrowave.com/wr-12-waveguide-standard-gain-horn-6.5-dbi-ug-387-m-fmwpr012-7-p.aspx>

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