

WR-6 Waveguide Probe Antenna Operating from 110 GHz to 170 GHz, 6.5 dBi Nominal Gain, UG-387/U-M Flange

The FMWPR006-7 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-6 waveguide size. Our WR-6 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-6 waveguide antenna with UG-387/U-M flange has a 6.5 dBi nominal gain and is currently available for purchase. Our WR-6 6.5 dBi gain probe antenna has a minimum frequency of 110 GHz and a maximum frequency of 170 GHz. This waveguide WR-6 probe horn antenna has a typical vertical beam width of 60 degrees and a horizontal beam width of 115 degrees at 3 dB.

The FMWPR006-7 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-6 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-6 probe waveguide horn with a 110–170 GHz frequency range. This waveguide probe antenna is part of over one million RF, microwave, and millimeter wave components in stock. Our part number FMWPR006-7 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-6 Probe
Polarization	Linear

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	110		170	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	0.03 lbs [13.61 g]

Waveguide Interface

Waveguide Size	WR-6
Flange Designation	UG-387/U-M
Body Material and Plating	Copper, Gold



Features:

- WR-6 rectangular waveguide interface
- Precisely machined
- Gold plated copper Body
- Linear polarization
- 110 GHz to 170 GHz, gain 6.5 dBi
- UG-387/U-Mod 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

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

Environmental Specifications

Temperature

Operating Range -40 to 85 deg C

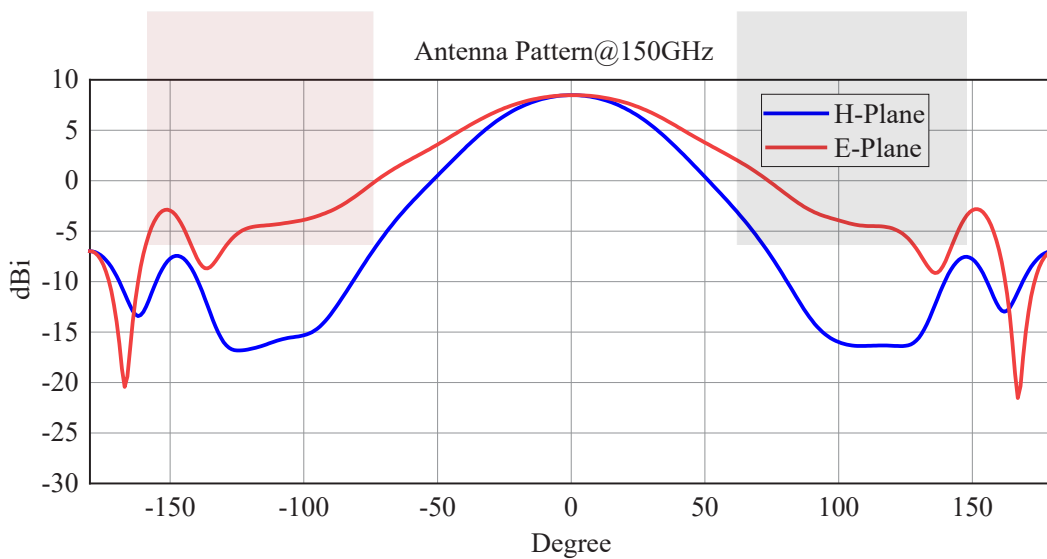
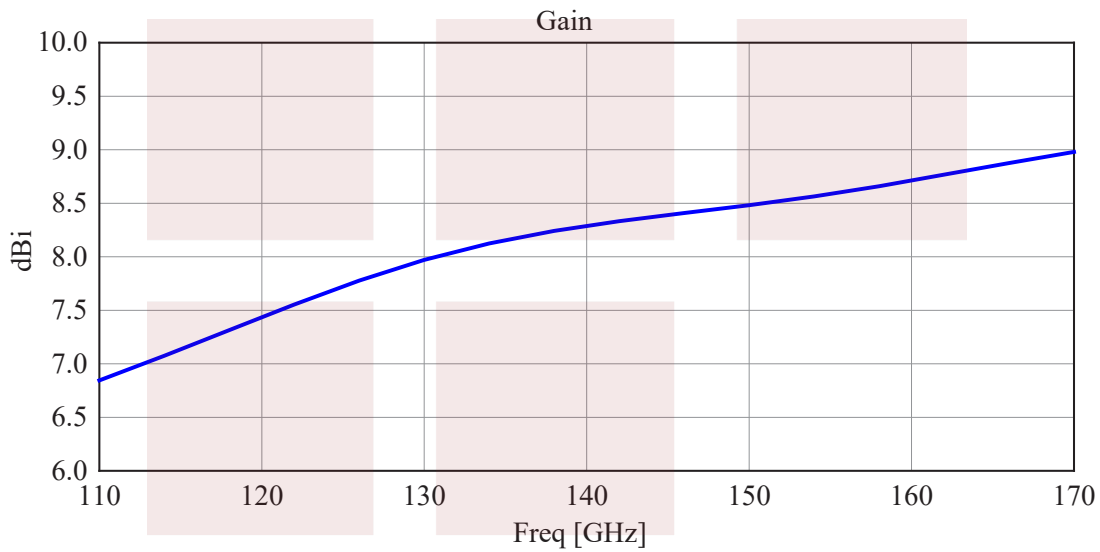
Compliance Certifications (see [product page](#) for current document)

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-6 Waveguide Probe Antenna Operating from 110 GHz to 170 GHz, 6.5 dBi Nominal Gain, UG-387/U-M Flange FMWPR006-7](#)

URL: <https://www.fairviewmicrowave.com/wr-6-waveguide-standard-gain-horn-6.5-dbi-ug-387-m-fmwpr006-7-p.aspx>

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