

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



PEWPR008-7

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

Description

The PEWPR008-7 from Pasternack 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.

Pasternack'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 PEWPR008-7 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 PEWPR008-7 probe antenna is ready for same-day purchase and shipping worldwide. Pasternack 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	Minimum	Typical	Maximum	Units
Frequency Range	90		140	GHz
Nominal Gain		6.5		dBi
Horizontal Half Power Beam Width		115		Degrees
Vertical Half Power Beam Width		60		Degrees
VSWR		1.5:1		

Mechanical Specifications

Size	
Length	1 in [25.4 mm]

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Width	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	0.035 lbs [15.88 g]

Waveguide Interface

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

Environmental Specifications

Temperature

Operating Range	-40 to 85 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

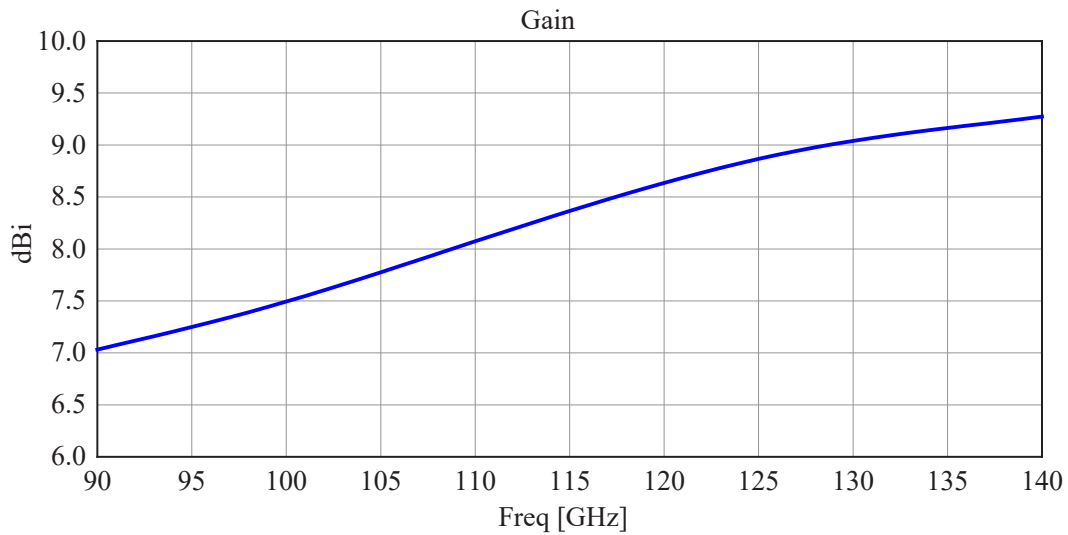
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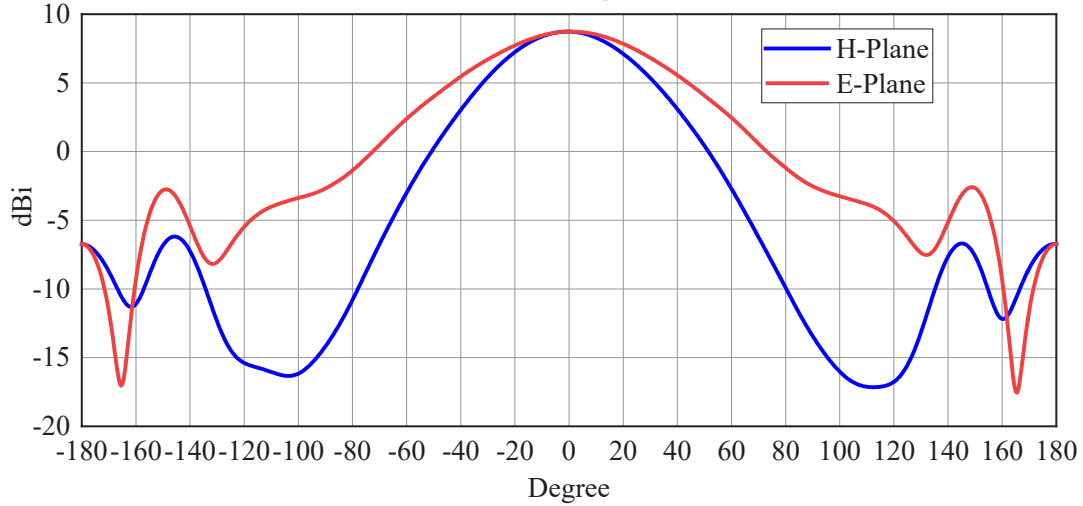
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Typical Performance Data

Gain:



Antenna Pattern@122GHz



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WR-8 Waveguide Probe Antenna Operating from 90 GHz to 140 GHz, 6.5 dBi Nominal Gain, UG-387/U-M Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-8 Waveguide Probe Antenna Operating from 90 GHz to 140 GHz, 6.5 dBi Nominal Gain, UG-387/U-M Flange PEWPR008-7](#)

URL: <https://www.pasternack.com/wr-8-waveguide-standard-gain-horn-6.5-dbi-ug-387-m-pewpr008-7-p.aspx>

The information contained within 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. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PEWPR008-7 CAD Drawing

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