



WR-8 Waveguide Standard Gain Horn Antenna Operating from 90 GHz to 140 GHz with a Nominal 15 dBi Gain with UG-387/U-Mod Round Cover Flange

Gain Horns Technical Data Sheet

PEWAN1022

Features

- Rectangular Waveguide Interface
- 90 GHz to 140 GHz
- 15 dBi Nominal Gain
- UG-387/U-Mod Round Cover Flange

Applications

- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems

Description

Waveguide standard gain horn antennas are used in a wide variety of applications due to their high power handling capability, low loss, high directivity, and near constant electrical performance across a broad bandwidth. Pasternack's PEWAN1022 WR-8 waveguide standard gain horn antenna operating from 90 GHz to 140 GHz with a nominal 15 dBi gain is part of our full line of RF components available for same-day shipping. This Pasternack pyramidal horn antenna has a gold plated brass body and a precision tolerance UG-387/U-Mod round cover flange. The PEWAN1022 WR-8 waveguide standard gain horn antenna offers low gain variation across its operating frequency range.

Configuration

Design	WR-8 Standard Gain Horn
Pattern	Directional
Polarization	Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	90		140	GHz
Nominal Gain		15		dBi
Horizontal Half Power Beam Width		33		Degrees
Vertical Half Power Beam Width		29		Degrees
VSWR		1.15:1		

Mechanical Specifications

Size	
Length	1.163 in [29.54 mm]
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 Type	Round Cover
Flange Designation	UG-387/U-Mod

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 Standard Gain Horn Antenna Operating from 90 GHz to 140 GHz with a Nominal 15 dBi Gain with UG-387/U-Mod Round Cover Flange PEWAN1022](#)



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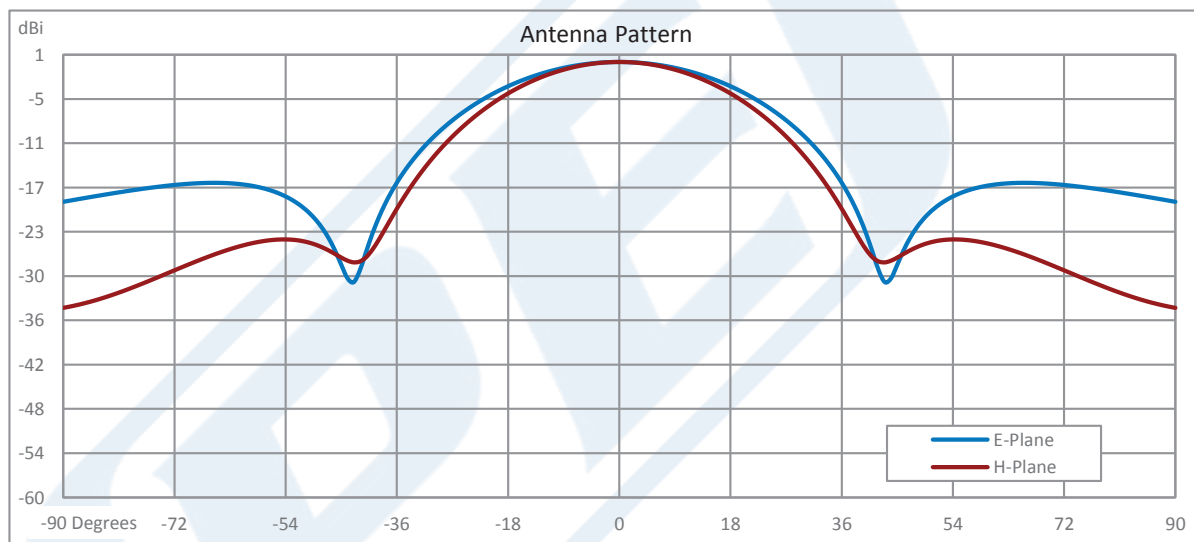
Body Material and Plating

Brass, Gold

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

Plotted and Other Data

Typical Performance Data



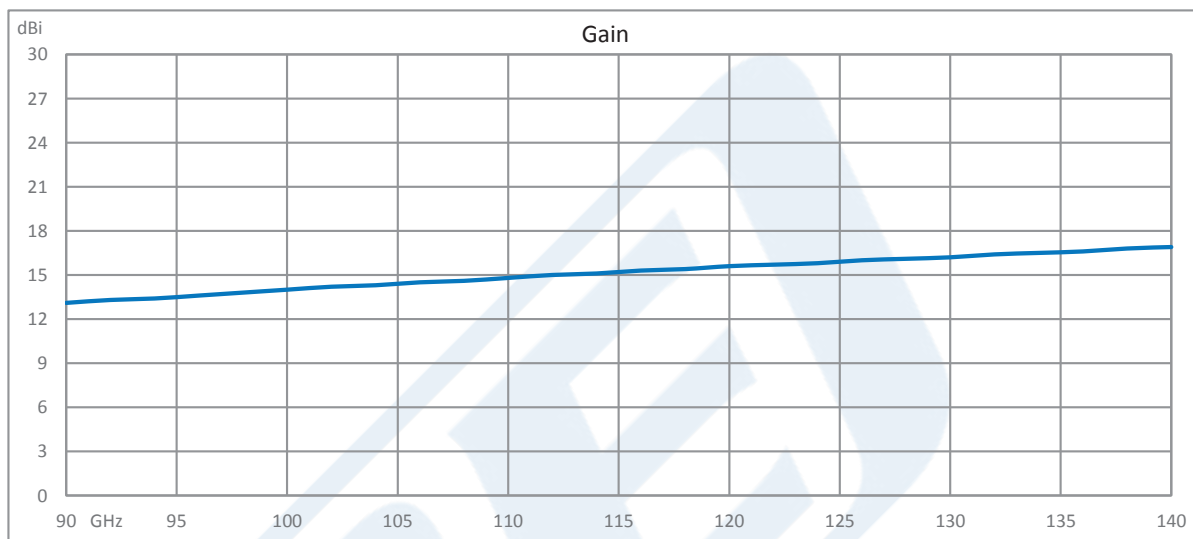
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WR-8 Waveguide Standard Gain Horn Antenna Operating from 90 GHz to 140 GHz with a Nominal 15 dBi Gain with UG-387/U-Mod Round Cover Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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

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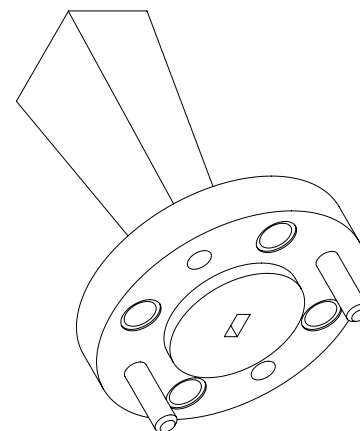
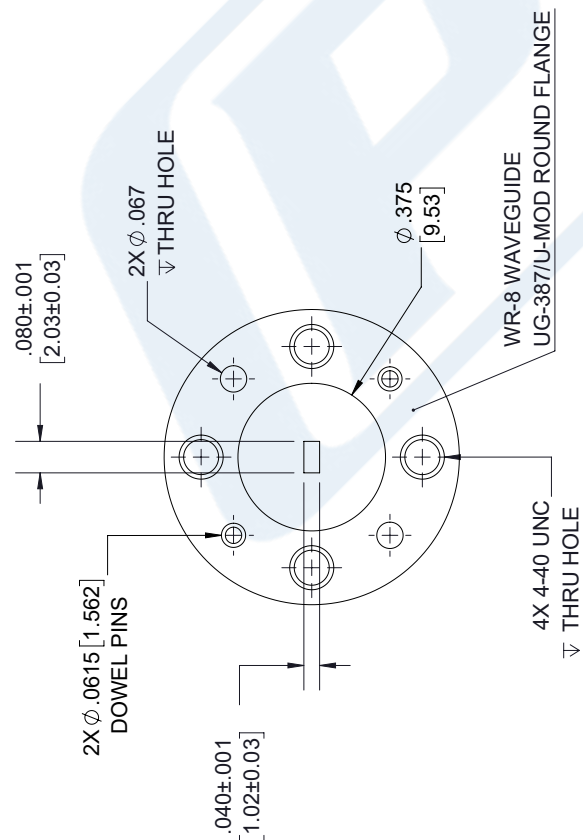
Technical drawing of a mechanical part showing dimensions in inches and millimeters. The drawing includes a side view and a top view.

Side View Dimensions:

- Top width: $.322$ [8.18]
- Bottom width: $.750$ [19.05]
- Height of the main body: $.200$ [5.08] TYP

Top View Dimensions:

- Overall width: $.750$ [19.05]



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	TOLERANCES:		X±.2 [5.08] FRACTIONS .XX±.01 [25] ±.1/32 .XXX±.005 [13] ANGLES ± 4°	
	ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		THIRD-ANGLE PROJECTION 	

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