



# WR-10 Waveguide Conical Gain Horn Antenna

Operating from 87 GHz to 100 GHz with a Nominal  
15 dBi Gain with UG-387/U Round Cover Flange

## Gain Horns Technical Data Sheet

PEWAN1050

### Features

- Circular Waveguide Interface
- 87 GHz to 100 GHz
- 15 dBi Nominal Gain
- UG-387/U Round Cover Flange

### Applications

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

### Description

Waveguide conical 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 PEWAN1050 WR-10 waveguide conical gain horn antenna operating from 87 GHz to 100 GHz with a nominal 15 dBi gain is part of our full line of RF components available for same-day shipping. This Pasternack circular horn antenna has a gold plated brass body and a precision tolerance UG-387/U round cover flange. The PEWAN1050 WR-10 waveguide conical gain horn antenna offers low gain variation across its operating frequency range.

### Configuration

Design	WR-10 Conical Gain Horn
Pattern	Directional
Polarization	Linear

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	87		100	GHz
Nominal Gain		15		dBi
Horizontal Half Power Beam Width		36		Degrees
Vertical Half Power Beam Width		30		Degrees
VSWR		1.15:1		

### Mechanical Specifications

<b>Size</b>	
Length	1.36 in [34.54 mm]
Width	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	0.041 lbs [18.6 g]

#### Waveguide Interface

Waveguide Size	WR-10
Flange Type	Round Cover
Flange Designation	UG-387/U

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-10 Waveguide Conical Gain Horn Antenna Operating from 87 GHz to 100 GHz with a Nominal 15 dBi Gain with UG-387/U Round Cover Flange PEWAN1050](#)



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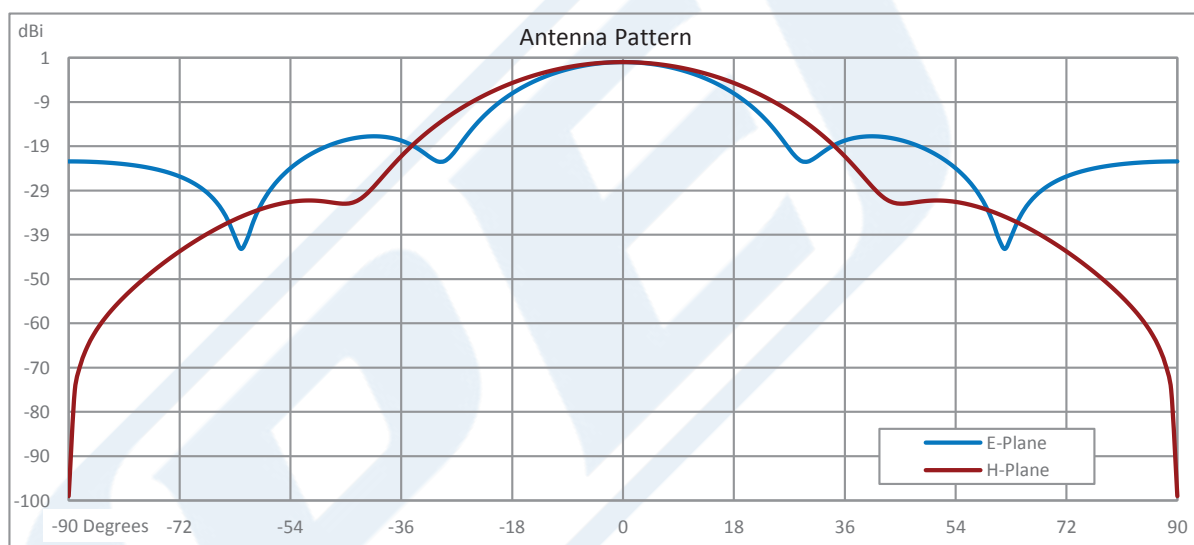
Body Material and Plating

Brass, Gold

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

### Plotted and Other Data

#### Typical Performance Data



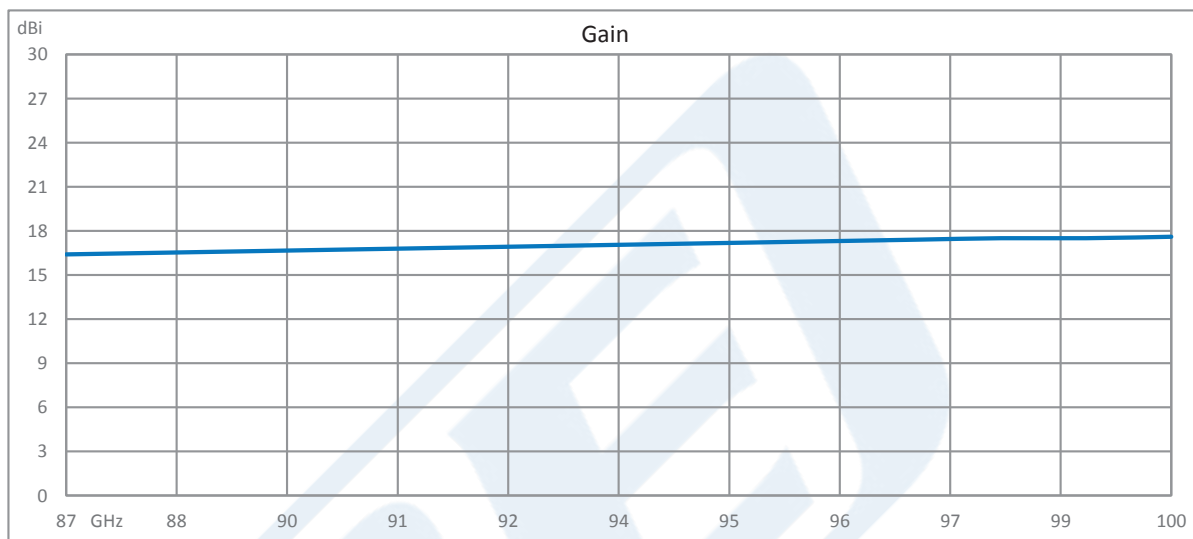
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WR-10 Waveguide Conical Gain Horn Antenna Operating from 87 GHz to 100 GHz with a Nominal 15 dBi Gain with UG-387/U Round Cover Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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# PEWAN1050 CAD Drawing

WR-10 Waveguide Conical Gain Horn Antenna Operating from 87 GHz to 100 GHz with a Nominal 15 dBi Gain with UG-387/U Round Cover Flange

