



WR-12 Waveguide Conical Gain Horn Antenna  
Operating from 68 GHz to 77 GHz with a Nominal  
10 dBi Gain with UG-387/U Round Cover Flange

Gain Horns Technical Data Sheet

PEWAN1041

**Features**

- Circular Waveguide Interface
- 68 GHz to 77 GHz
- 10 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 PEWAN1041 WR-12 waveguide conical gain horn antenna operating from 68 GHz to 77 GHz with a nominal 10 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 PEWAN1041 WR-12 waveguide conical gain horn antenna offers low gain variation across its operating frequency range.

**Configuration**

Design	WR-12 Conical Gain Horn
Pattern	Directional
Polarization	Linear

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	68		77	GHz
Nominal Gain		10		dBi
Horizontal Half Power Beam Width		58		Degrees
Vertical Half Power Beam Width		53		Degrees
VSWR		1.15:1		

**Mechanical Specifications**

<b>Size</b>	
Length	1.16 in [29.46 mm]
Width	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	0.034 lbs [15.42 g]

**Waveguide Interface**

Waveguide Size	WR-12
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-12 Waveguide Conical Gain Horn Antenna Operating from 68 GHz to 77 GHz with a Nominal 10 dBi Gain with UG-387/U Round Cover Flange PEWAN1041](#)



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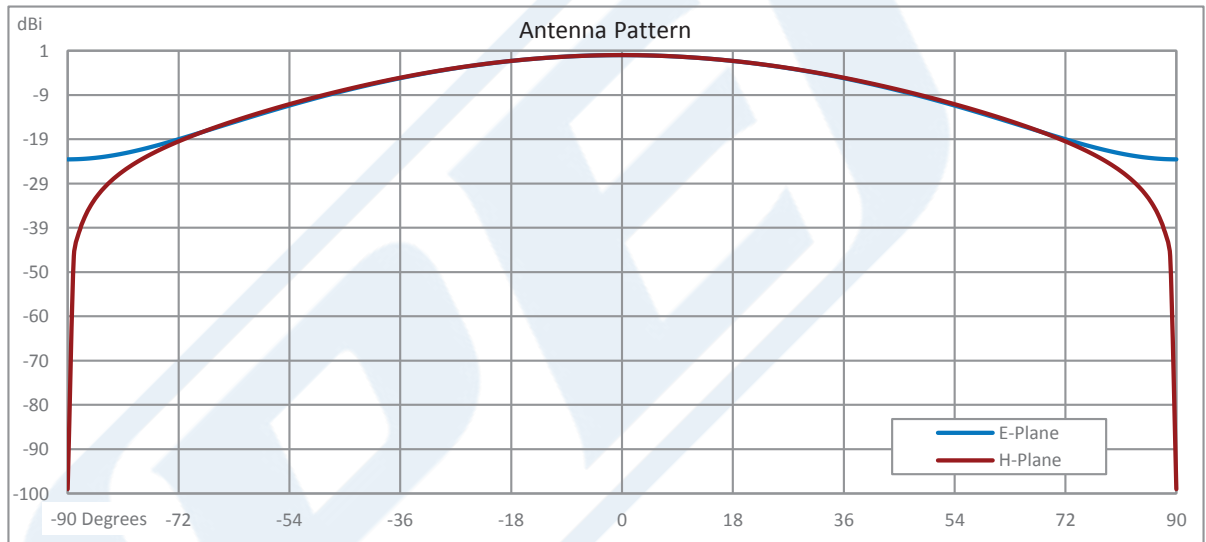
Body Material and Plating

Brass, Gold

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

### Plotted and Other Data

#### Typical Performance Data



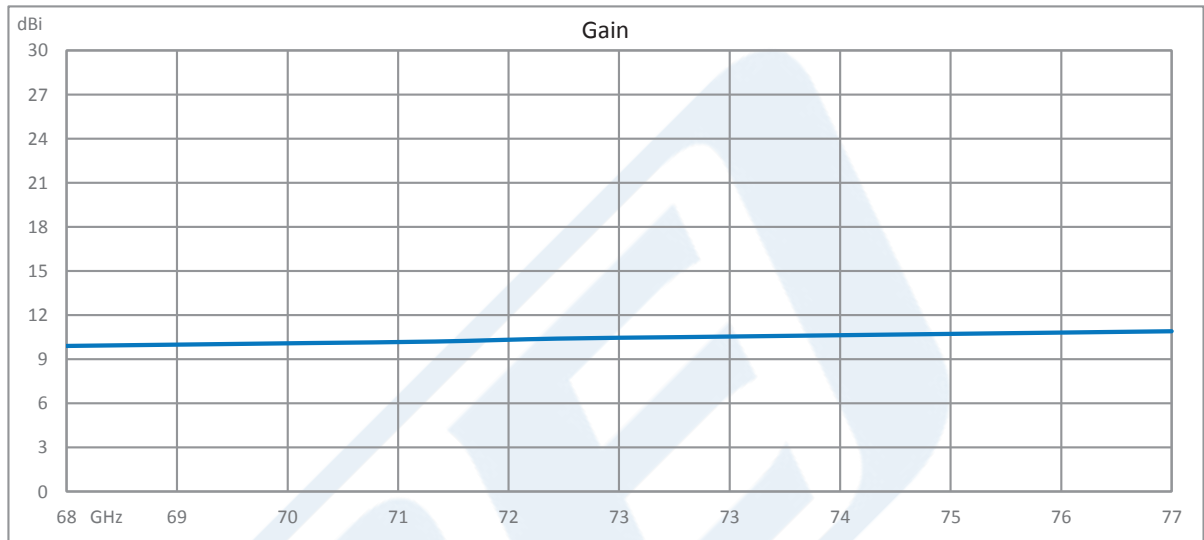
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WR-12 Waveguide Conical Gain Horn Antenna Operating from 68 GHz to 77 GHz with a Nominal 10 dBi Gain with UG-387/U Round Cover Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-12 Waveguide Conical Gain Horn Antenna Operating from 68 GHz to 77 GHz with a Nominal 10 dBi Gain with UG-387/U Round Cover Flange PEWAN1041](https://www.pasternack.com/wr-12-waveguide-gain-horn-antenna-10dbi-ug-387-round-flange-pewan1041-p.aspx)

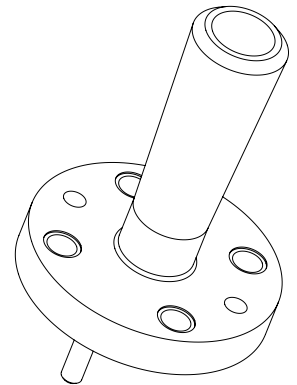
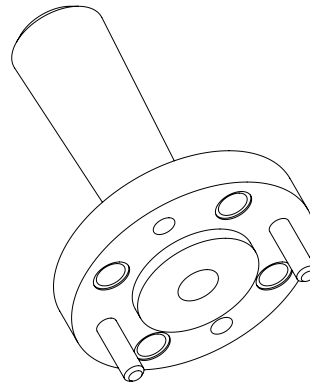
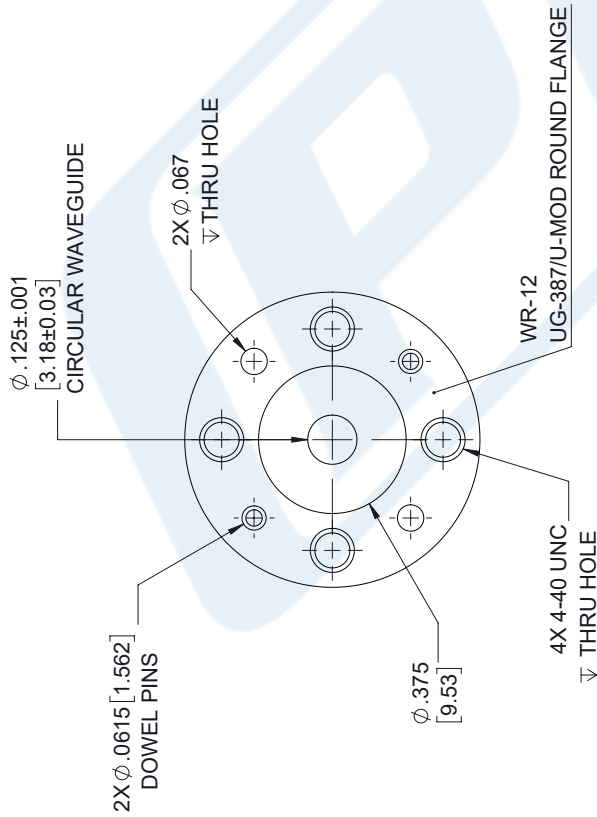
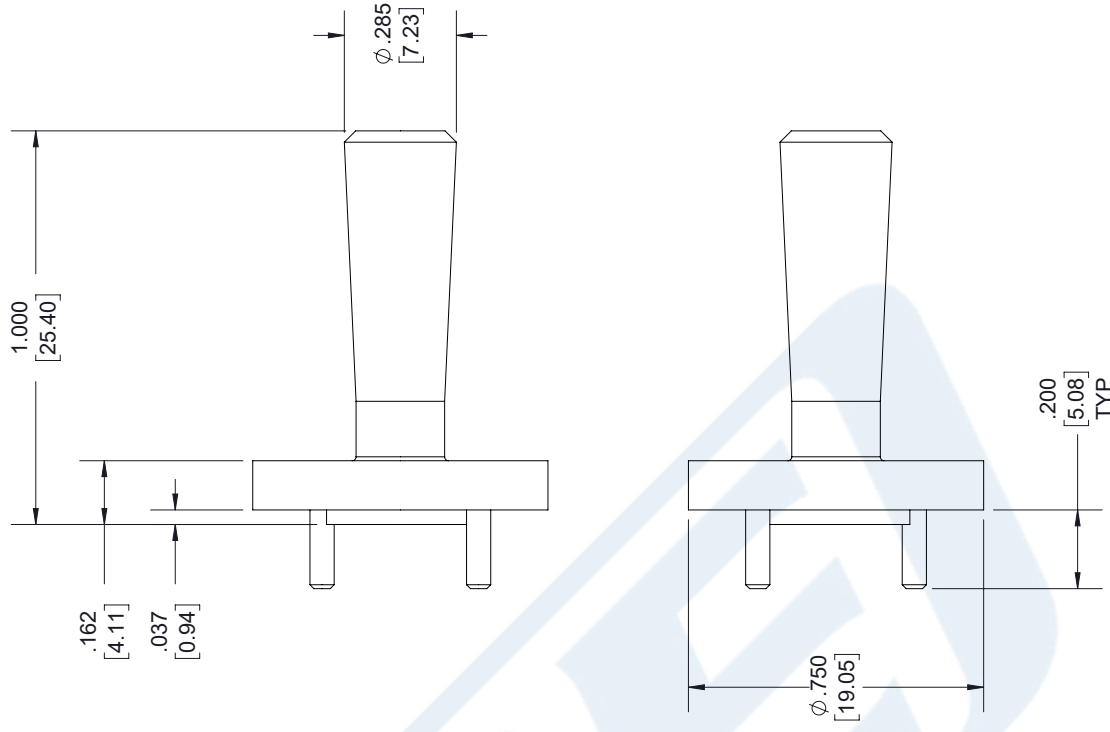
URL: <https://www.pasternack.com/wr-12-waveguide-gain-horn-antenna-10dbi-ug-387-round-flange-pewan1041-p.aspx>

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# PEWAN1041 CAD Drawing

WR-12 Waveguide Conical Gain Horn Antenna Operating from 68 GHz to 77 GHz with a Nominal 10 dBi Gain with UG-387/U Round Cover Flange

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/21/19	M.MILLER



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±.132
.XX±.01 [0.25]	±.132
.XXX±.005 [0.13]	ANGLES ± 1°
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

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SHEET 1 OF 1  
SCALE N/A

SIZE A  
CAGE 53919  
DRAWN BY K.DANG  
PART NUMBER PEWAN1041  
REV A

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