



WR-15 Waveguide Standard Gain Horn Antenna  
Operating from 50 GHz to 75 GHz with a Nominal  
24 dBi Gain with UG-385/U Round Cover Flange

Gain Horns Technical Data Sheet

PE9881-24

**Features**

- Rectangular Waveguide Interface
- 50 GHz to 75 GHz
- 24 dBi Nominal Gain
- UG-385/U 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 PE9881-24 WR-15 waveguide standard gain horn antenna operating from 50 GHz to 75 GHz with a nominal 24 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-385/U round cover flange. The PE9881-24 WR-15 waveguide standard gain horn antenna offers low gain variation across its operating frequency range and 11 degrees of half power beam width.

**Configuration**

Design: WR-15 Standard Gain Horn  
 Pattern: Directional  
 Polarization: Linear

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	50		75	GHz
Nominal Gain		24		dBi
Horizontal Half Power Beam Width		11		Degrees
Vertical Half Power Beam Width		9.5		Degrees
VSWR		1.15:1		

**Mechanical Specifications**

**Size**

Length: 2.74 in [69.6 mm]  
 Width: 1.52 in [38.61 mm]  
 Height: 1.16 in [29.46 mm]  
 Weight: 0.127 lbs [57.61 g]

**Waveguide Interface**

Waveguide Size: WR-15  
 Flange Type: Round Cover  
 Flange Designation: UG-385/U

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-15 Waveguide Standard Gain Horn Antenna Operating from 50 GHz to 75 GHz with a Nominal 24 dBi Gain with UG-385/U Round Cover Flange PE9881-24](#)



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Body Material and Plating

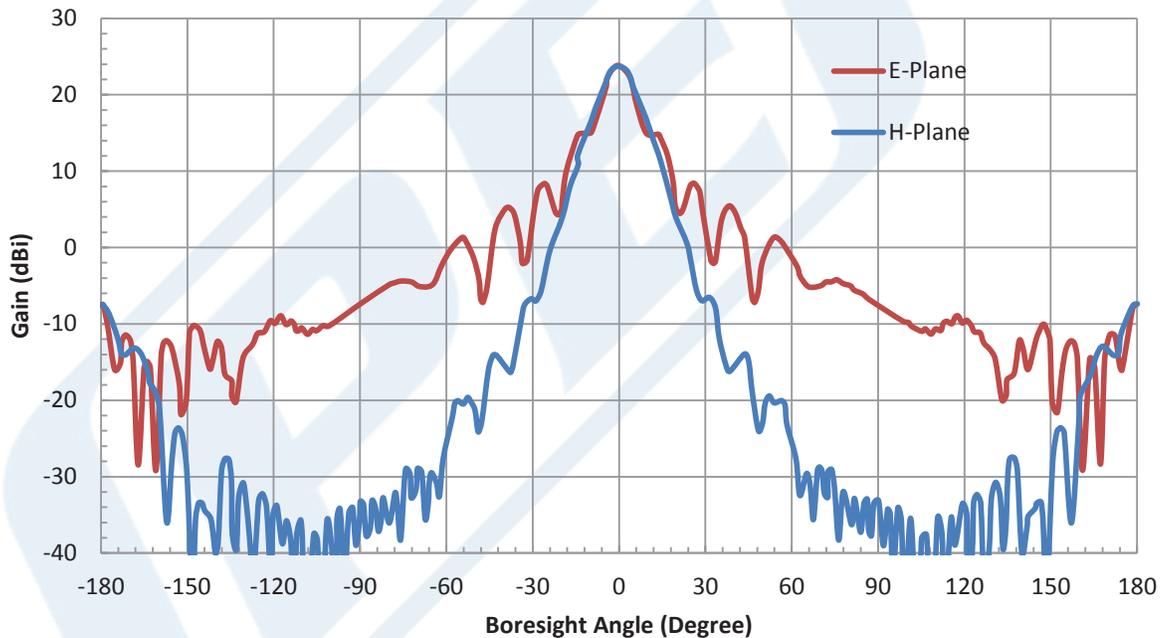
Brass, Gold

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

**Plotted and Other Data**

**Typical Performance Data**

Antenna Patterns @ 62.5 GHz



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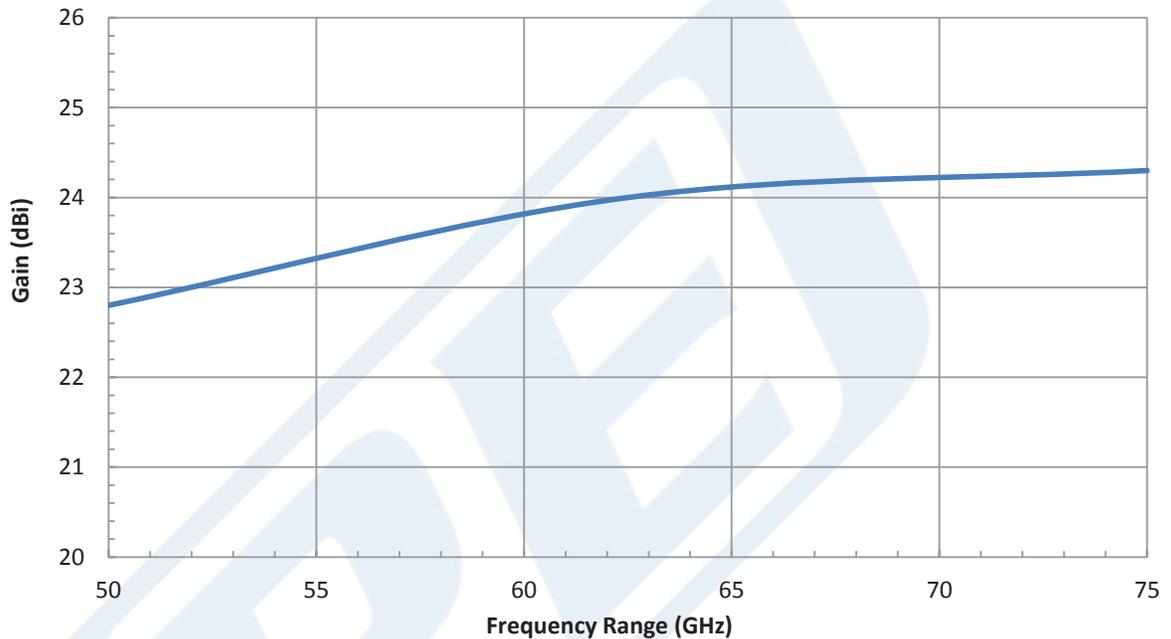


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Gain vs. Frequency



WR-15 Waveguide Standard Gain Horn Antenna Operating from 50 GHz to 75 GHz with a Nominal 24 dBi Gain with UG-385/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-15 Waveguide Standard Gain Horn Antenna Operating from 50 GHz to 75 GHz with a Nominal 24 dBi Gain with UG-385/U Round Cover Flange PE9881-24](https://www.pasternack.com/single-antenna-operates-from-50-75-ghz-with-a-nominal-dbi-gain-wr-15-input-connectors-pe9881-24-p.aspx)

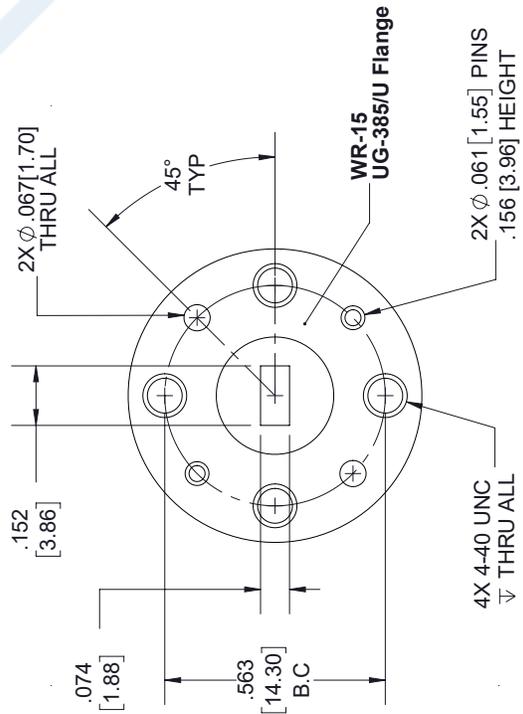
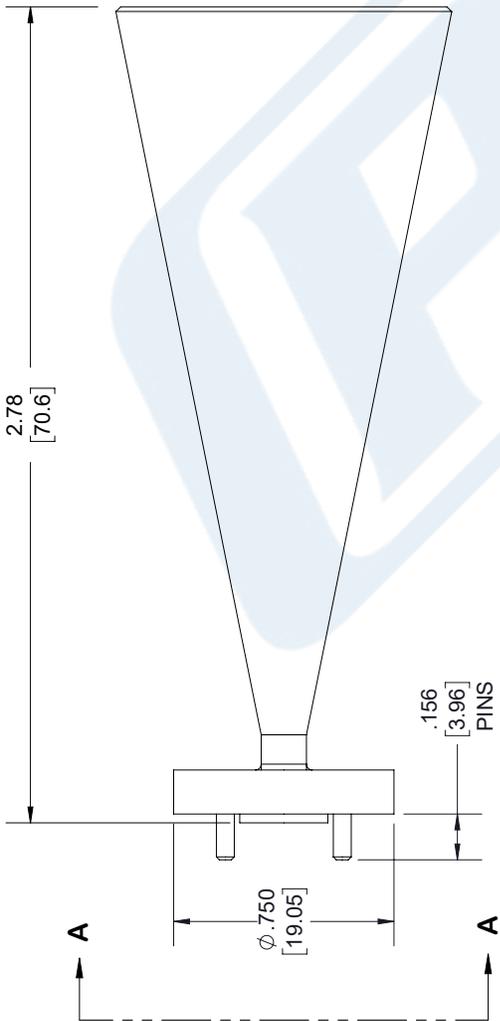
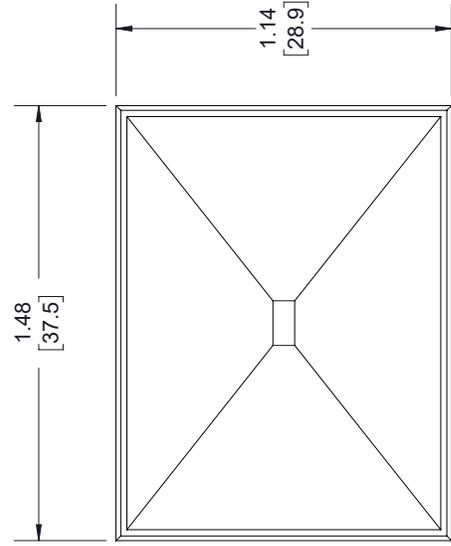
URL: <https://www.pasternack.com/single-antenna-operates-from-50-75-ghz-with-a-nominal-dbi-gain-wr-15-input-connectors-pe9881-24-p.aspx>

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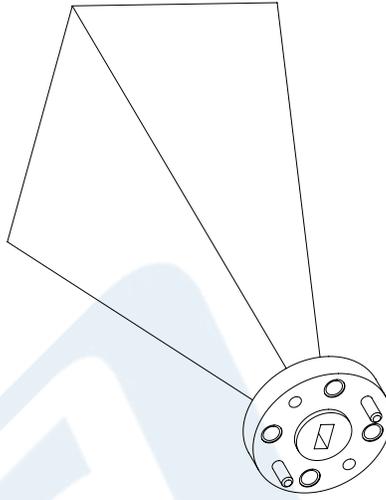
# PE9881-24 CAD Drawing

WR-15 Waveguide Standard Gain Horn Antenna Operating from 50 GHz to 75 GHz with a Nominal 24 dBi Gain with UG-385/U Round Cover Flange

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1.4	PCR PE9881-24 20190408	04/08/19	J.GARCIA



VIEW A-A



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

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SHEET 1 OF 1  
SCALE N/A

SIZE A  
CAGE DRAWN BY K.DANG  
PART NUMBER PE9881-24  
REV 1.4

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