



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
- Laboratory Use
- Wireless Communication
- 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

Environmental Specifications

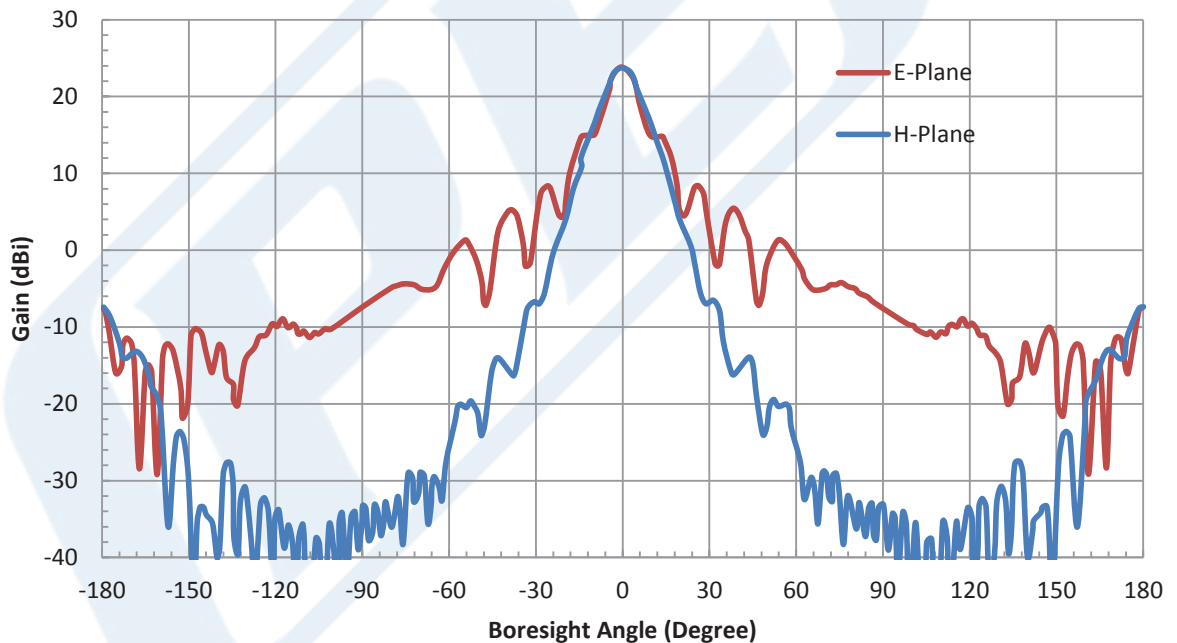
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data

Antenna Patterns @ 62.5 GHz



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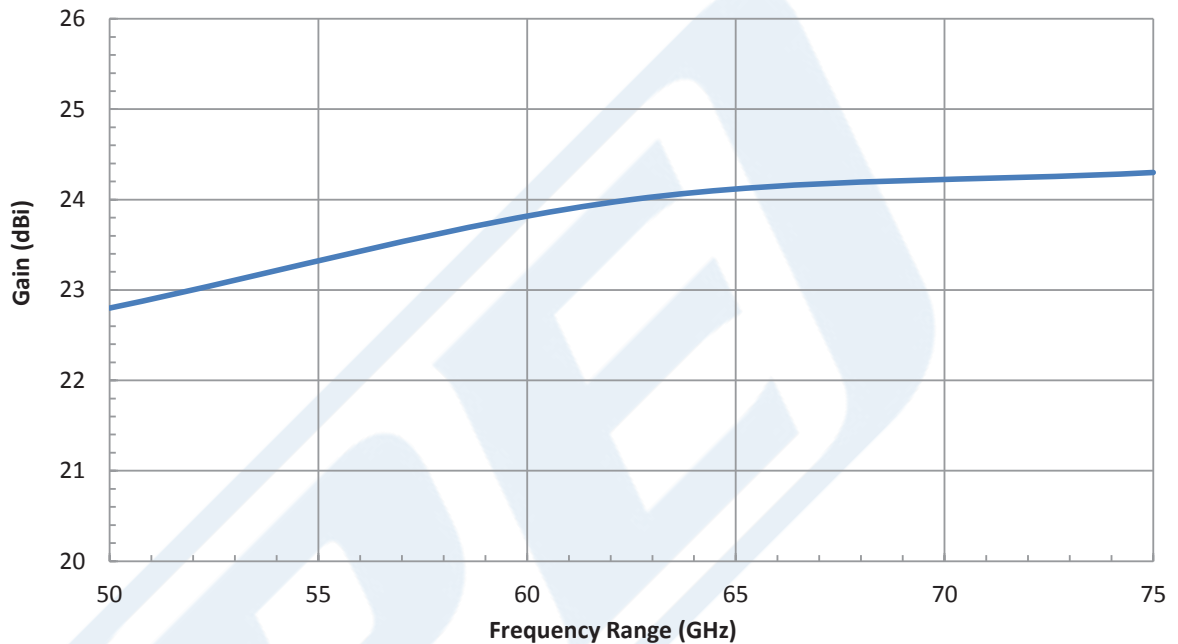


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Gain vs. Frequency



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.

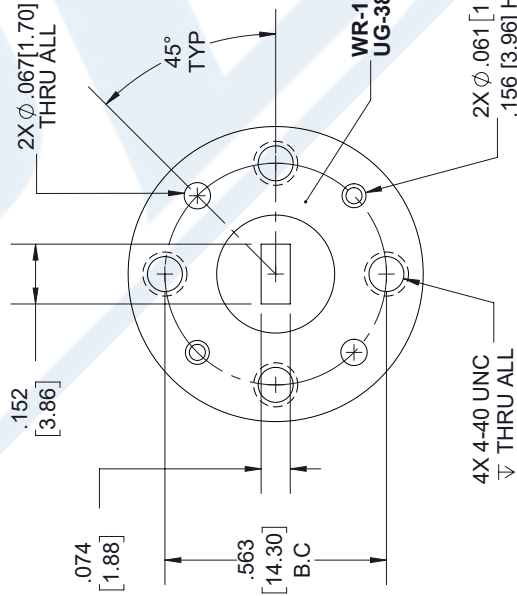
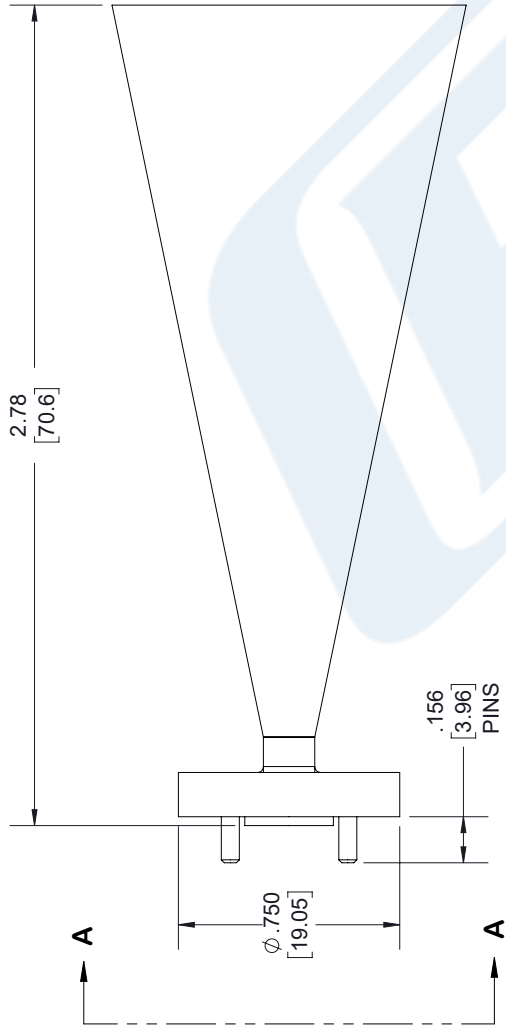
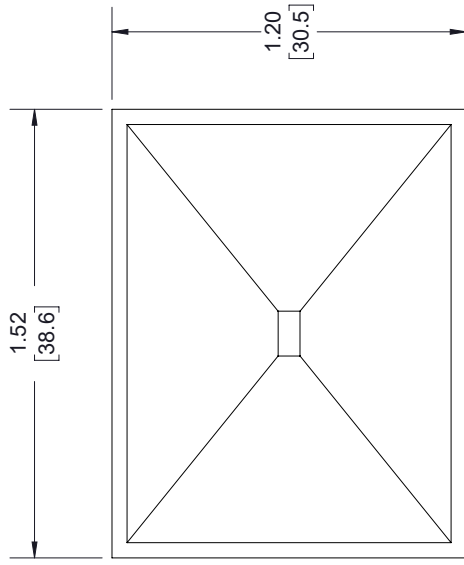
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URL: <https://www.pasternack.com/single-antenna-operates-from-50-75-ghz-with-a-nominal-dbi-gain-wr-15-input-connectors-pe9881-24-p.aspx>

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.

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



VIEW A-A
SCALE 2 : 1

STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE	PE9881-24
CAGE CODE	53919
CAD FILE	060817
SCALE	N/A
SIZE	A
	9999

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