



WR-15 Waveguide Omni-directional Antenna Operating from 58 GHz to 62 GHz with a Nominal 3.5 dBi Gain with UG-385/U Round Cover Flange

## Gain Horns Technical Data Sheet

PEWAN1087

### Features

- Rectangular Waveguide Interface
- 58 GHz to 62 GHz frequency range
- 3.5 dBi Nominal Gain
- UG-385/U Round Cover Flange

### Applications

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

### Description

Waveguide omni-directional 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 PEWAN1087 WR-15 waveguide omni-directional antenna operating from 58 GHz to 62 GHz with a nominal 3.5 dBi gain is part of our full line of RF components available for same-day shipping. The PEWAN1087 WR-15 waveguide omni-directional antenna offers low gain variation across its operating frequency range.

### Configuration

Design	WR-15 Omni-directional
Pattern	Omni Directional
Polarization	Linear

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	58		62	GHz
Nominal Gain		3.5		dBi
Gain	3.3		4	dBi
Horizontal Half Power Beam Width		360		Degrees
Vertical Half Power Beam Width		45		Degrees
VSWR		1.3:1		

### Mechanical Specifications

<b>Size</b>	
Length	2.16 in [54.86 mm]
Width	1.6 in [40.64 mm]
Height	1.6 in [40.64 mm]
Weight	0.197 lbs [89.36 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 Omni-directional Antenna Operating from 58 GHz to 62 GHz with a Nominal 3.5 dBi Gain with UG-385/U Round Cover Flange PEWAN1087](#)



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from 58 GHz to 62 GHz with a Nominal 3.5 dBi  
Gain with UG-385/U Round Cover Flange

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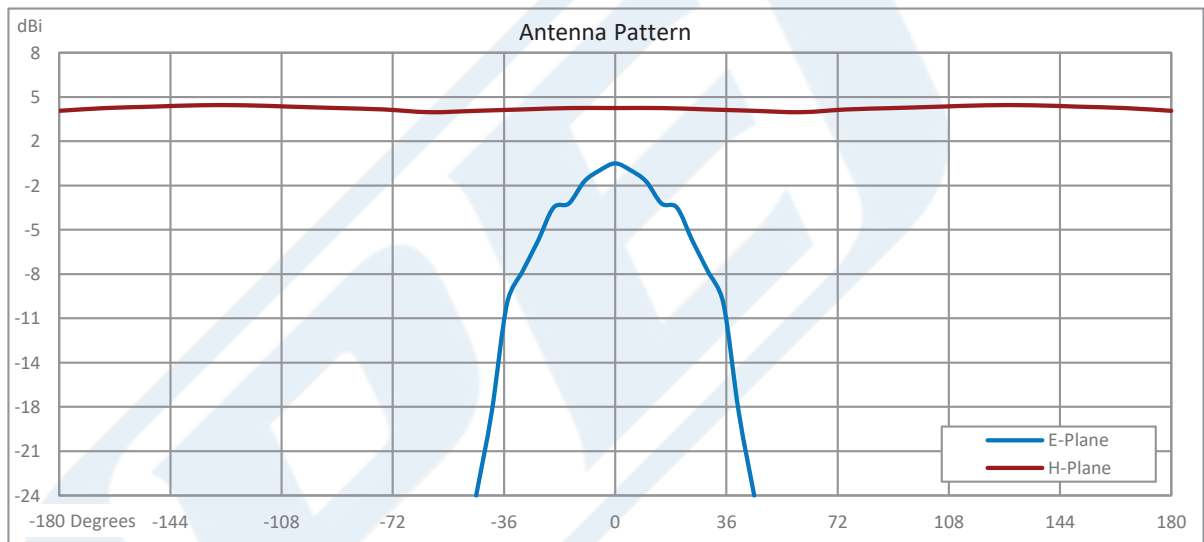
Body Material and Plating

Aluminum, Gold

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

### Plotted and Other Data

#### Typical Performance Data



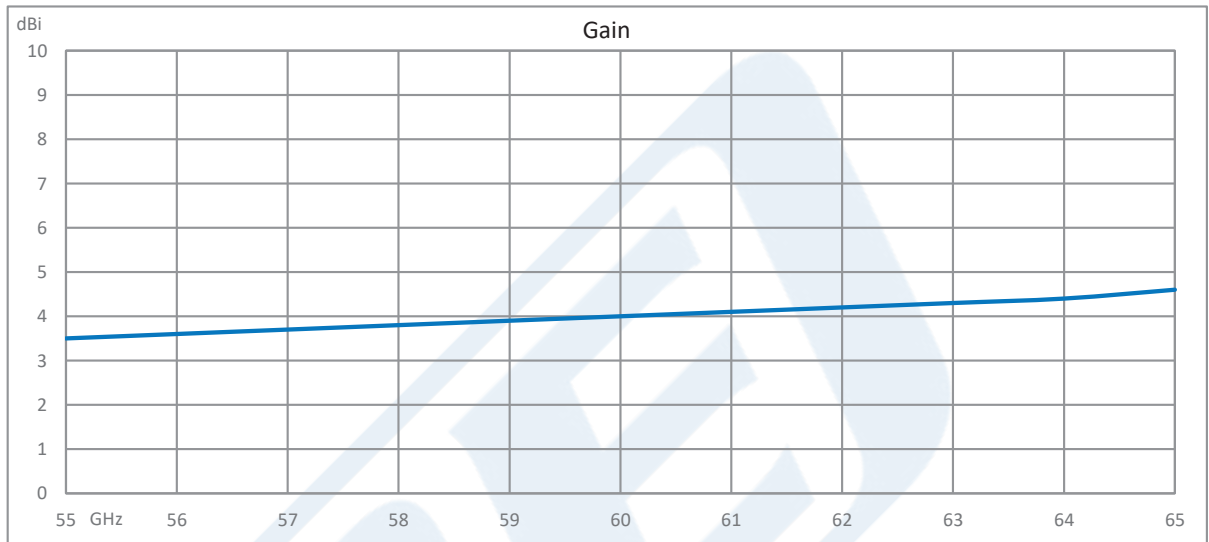
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-15 Waveguide Omni-directional Antenna Operating from 58 GHz to 62 GHz with a Nominal 3.5 dBi Gain with UG-385/U Round Cover Flange PEWAN1087](#)



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WR-15 Waveguide Omni-directional Antenna Operating from 58 GHz to 62 GHz with a Nominal 3.5 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 Omni-directional Antenna Operating from 58 GHz to 62 GHz with a Nominal 3.5 dBi Gain with UG-385/U Round Cover Flange PEWAN1087](https://www.pasternack.com/wr-15-waveguide-gain-horn-antenna-3.5dbi-ug-385-round-flange-pewan1087-p.aspx)

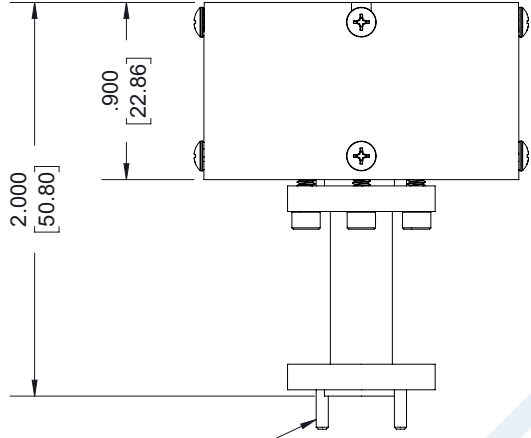
URL: <https://www.pasternack.com/wr-15-waveguide-gain-horn-antenna-3.5dbi-ug-385-round-flange-pewan1087-p.aspx>

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.

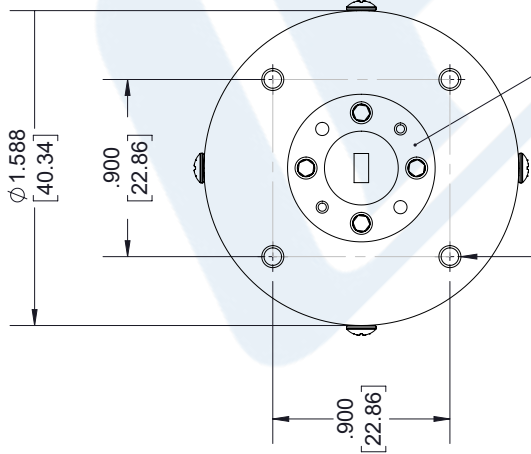
# PEWAN1087 CAD Drawing

WR-15 Waveguide Omni-directional Antenna Operating from 58 GHz to 62 GHz with a Nominal 3.5 dBi Gain with UG-385/U Round Cover Flange

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/20/19	M.MILLER

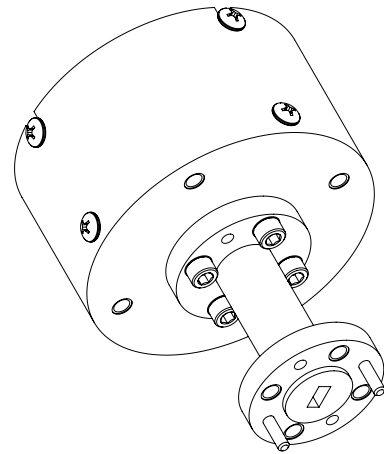
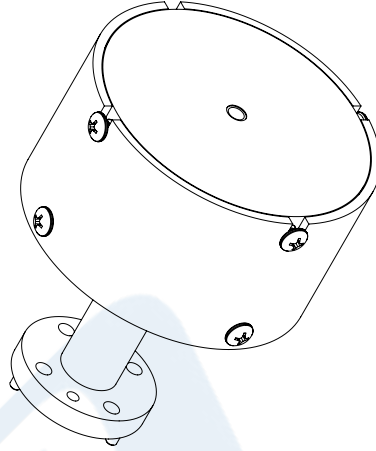


2X  $\phi$ .0615 X L.200  
DOWEL PIN



4X  $\phi$  .089 [2.26]  $\nabla$  .250 [6.35]  
4-40 UNC  $\nabla$  .220  
MOUNTING HOLES

WR-15 V-BAND  
UG-385/U-MOD ROUND FLANGE



UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

X $\pm$	2	[5.08]	FRACTIONS
XX $\pm$	.01	[.25]	$\pm$ .132
.XXX $\pm$	.005	[.13]	ANGLES $\pm$ 1°

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

**PE PASTERNAK**  
an INFINITO brand

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SIZE A CAGE 53919 DRAWN BY K.DANG PART NUMBER PEWAN1087 REV A

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SHEET 1 OF 1  
SCALE N/A

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