



0.110 Inch Circular Waveguide Scalar Feed Horn Antenna, 77 GHz to 87 GHz Frequency Range, 17 dBi Gain, UG-387/U-Mod Flange

Waveguide Antennas Technical Data Sheet

PEWAN1122

**Features**

- 0.110" Diameter Circular Waveguide Interface
- Precisely Machined
- Low Sidelobe Level
- High Return Loss
- Linear and Circular Polarization

**Applications**

- Feed Horn for Gaussian Optical Antennas
- Feed Horn for Cassegrain Antennas
- Rapid System Setups
- Engineering Setups

**Description**

Pasternack's PEWAN1122 is an E band scalar feed horn antenna that operates in the frequency range of 77 GHz to 87 GHz. The scalar feed horn antenna offers a 17 dBi nominal gain, 25 degrees typical half power beamwidth, and -28.5 dB typical side lobe levels. PEWAN1122 features a 0.110" diameter circular waveguide with UG-387/U-M flange that supports both linear and circular polarization.

**Configuration**

Polarization: Linear/Circular

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	77		87	GHz
Nominal Gain		17		dBi
Horizontal Half Power Beam Width		25		Degrees
Vertical Half Power Beam Width		25		Degrees
VSWR		1.2:1		

**Mechanical Specifications**

**Size**

Length: 2 in [50.8 mm]  
 Width: 0.75 in [19.05 mm]  
 Height: 0.75 in [19.05 mm]

Weight: 0.106 lbs [48.08 g]  
 Flange Designation: UG-387/U-Mod  
 Body Material and Plating: Aluminum, Gold

**Environmental Specifications**

**Temperature**  
 Operating Range: -40 to 85 deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [0.110 Inch Circular Waveguide Scalar Feed Horn Antenna, 77 GHz to 87 GHz Frequency Range, 17 dBi Gain, UG-387/U-Mod Flange PEWAN1122](#)



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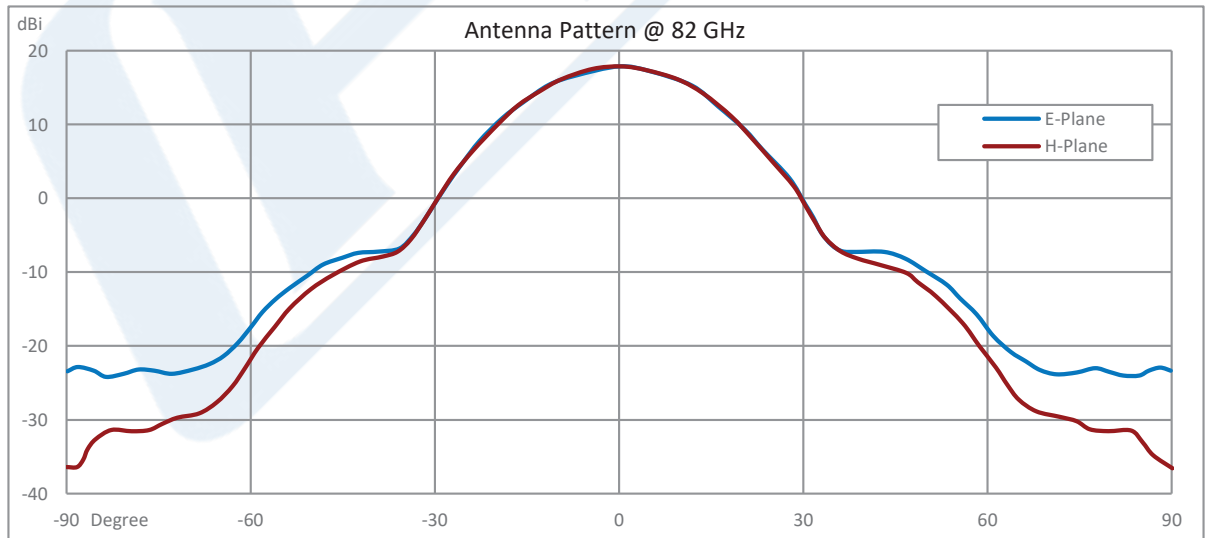
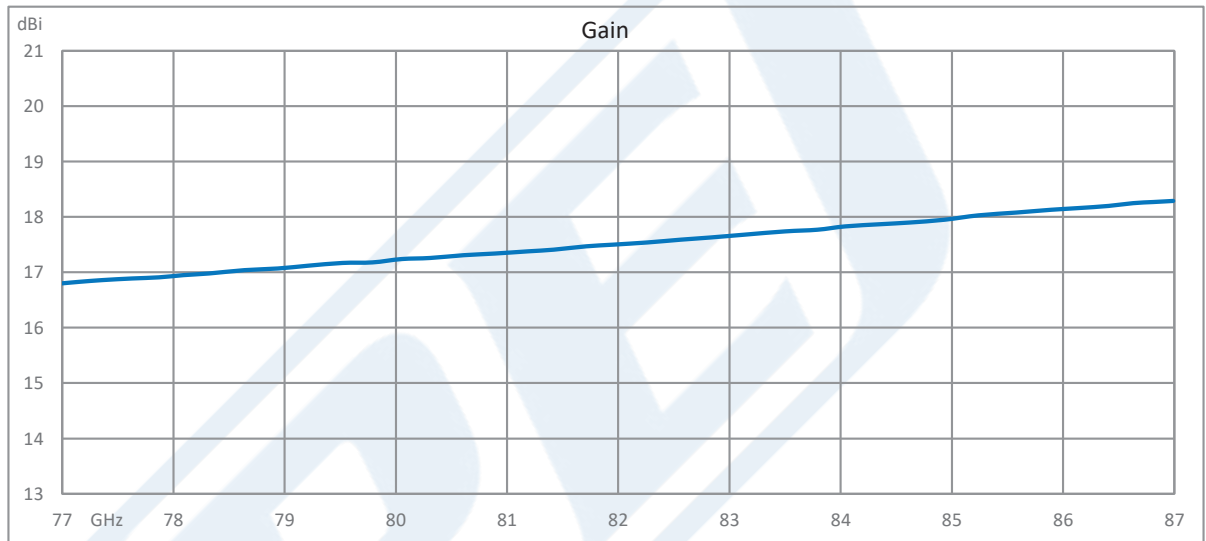
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**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

**Typical Performance Data**



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0.110 Inch Circular Waveguide Scalar Feed Horn Antenna, 77 GHz to 87 GHz Frequency Range, 17 dBi Gain, UG-387/U-Mod 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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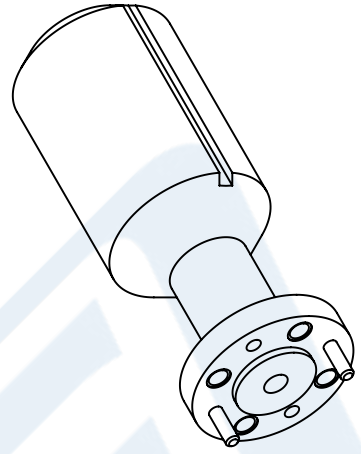
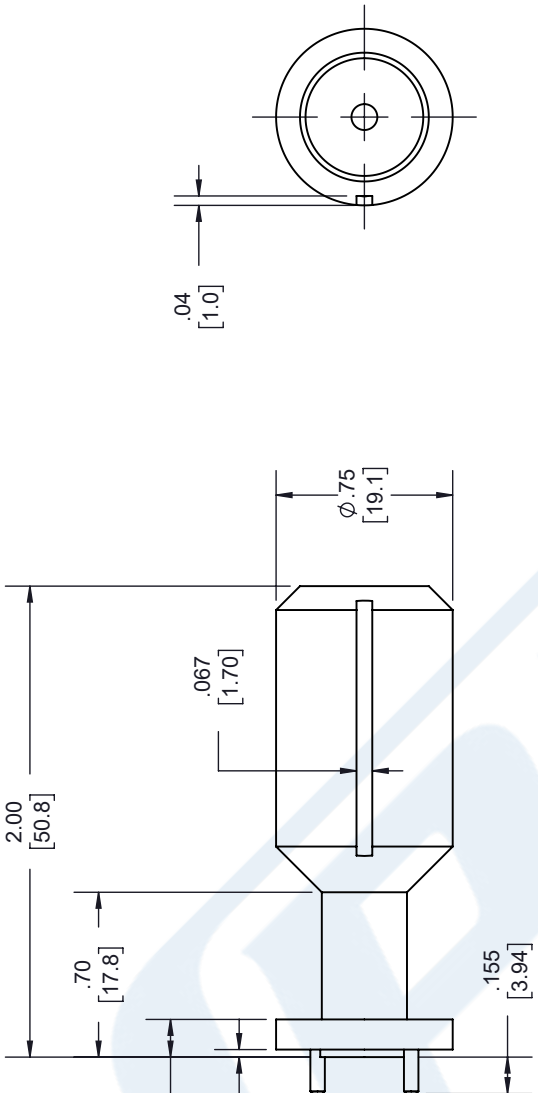
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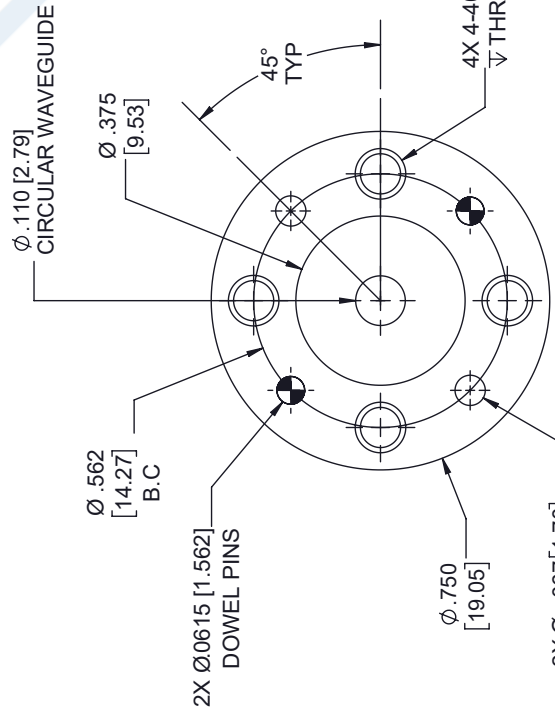
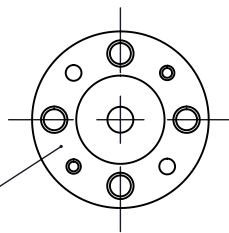
# PEWAN1122 CAD Drawing

0.110 Inch Circular Waveguide Scalar Feed Horn Antenna, 77 GHz to 87 GHz Frequency Range, 17 dBi Gain, UG-387/U-Mod Flange

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08/16/19	M.MILLER



Ø .110 [2.79] CIRCULAR WAVEGUIDE  
 UG-387/U-M ROUND COVER FLANGE



FLANGE DETAIL

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS TOLERANCES: X±.2 [5.08] FRACTIONS XX±.01 [ .25] ±1/32 XXX±.005 [ .13] ANGLES ± 1° ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. THIRD-ANGLE PROJECTION	<b>PE PASTERNAK</b> an INFINITE® brand Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920   1.866.727.8376 Fax: 1.949.261.7451 www.pasternack.com   e-mail: sales@pasternack.com		SHEET 1 OF 1 SCALE N/A
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