



0.250 Inch Circular Waveguide Scalar Feed
Horn Antenna, 33 GHz to 38.5 GHz Frequency
Range, 17 dBi Gain, UG-599/U Flange

Waveguide Antennas Technical Data Sheet

PEWAN1115

Features

- 0.250" 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 PEWAN1115 is a Ka band scalar feed horn antenna that operates in the frequency range of 33 GHz to 38.5 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. PEWAN1115 features a 0.250" diameter circular waveguide with UG-599/U flange that supports both linear and circular polarization.

Configuration

Polarization Linear/Circular

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	33		38.5	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	2.75 in [69.85 mm]
Width	1.25 in [31.75 mm]
Height	1.25 in [31.75 mm]
Weight	0.156 lbs [70.76 g]
Flange Designation	UG-599/U
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: [0.250 Inch Circular Waveguide Scalar Feed Horn Antenna, 33 GHz to 38.5 GHz Frequency Range, 17 dBi Gain, UG-599/U Flange PEWAN1115](#)



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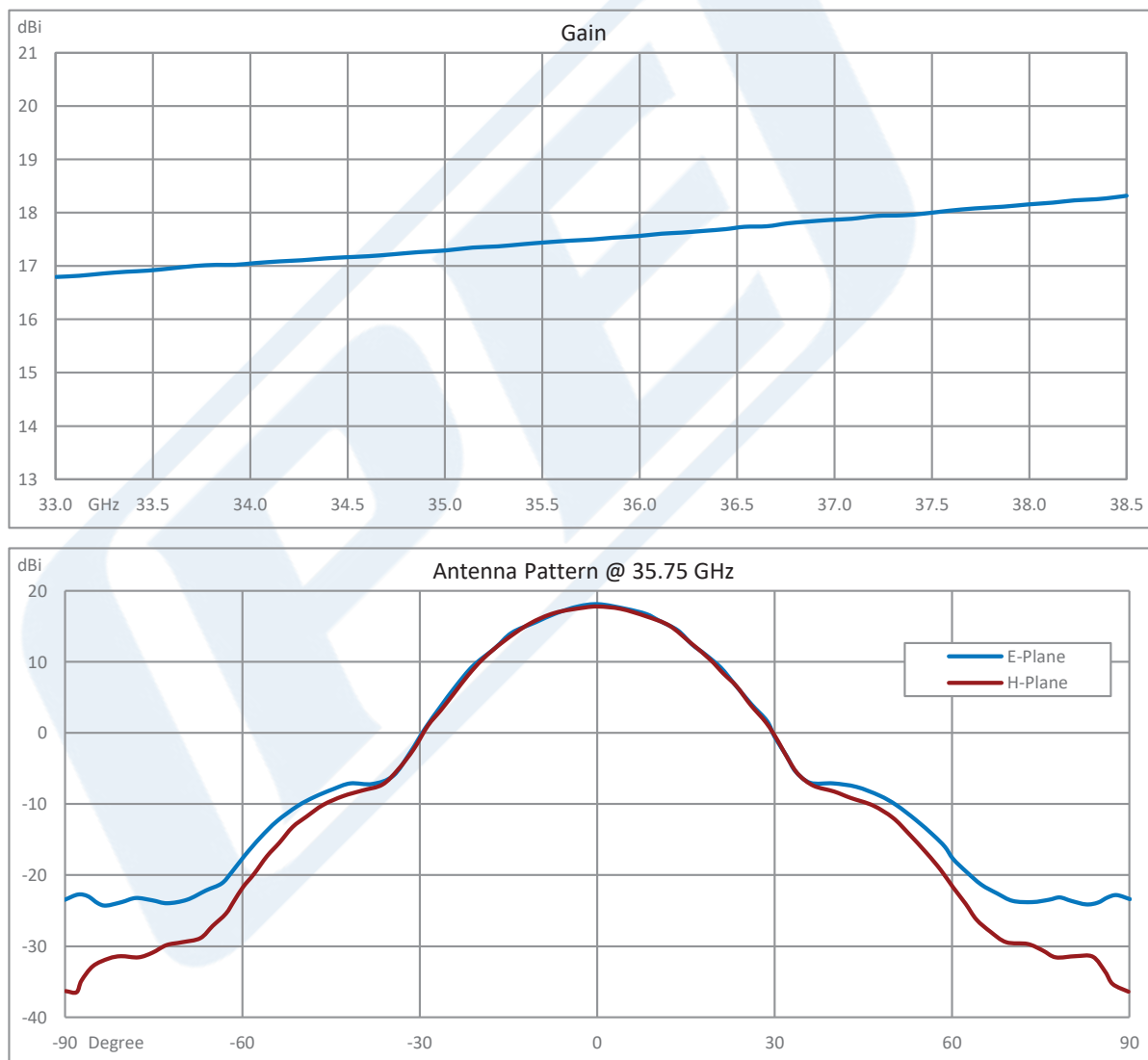
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PEWAN1115

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

Plotted and Other Data

Typical Performance Data



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0.250 Inch Circular Waveguide Scalar Feed Horn Antenna, 33 GHz to 38.5 GHz Frequency Range, 17 dBi Gain, UG-599/U 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: [0.250 Inch Circular Waveguide Scalar Feed Horn Antenna, 33 GHz to 38.5 GHz Frequency Range, 17 dBi Gain, UG-599/U Flange PEWAN1115](https://www.pasternack.com/waveguide-gain-horn-antenna-17dbi-ug-599-flange-pewan1115-p.aspx)

URL: <https://www.pasternack.com/waveguide-gain-horn-antenna-17dbi-ug-599-flange-pewan1115-p.aspx>

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PEWAN1115 CAD Drawing

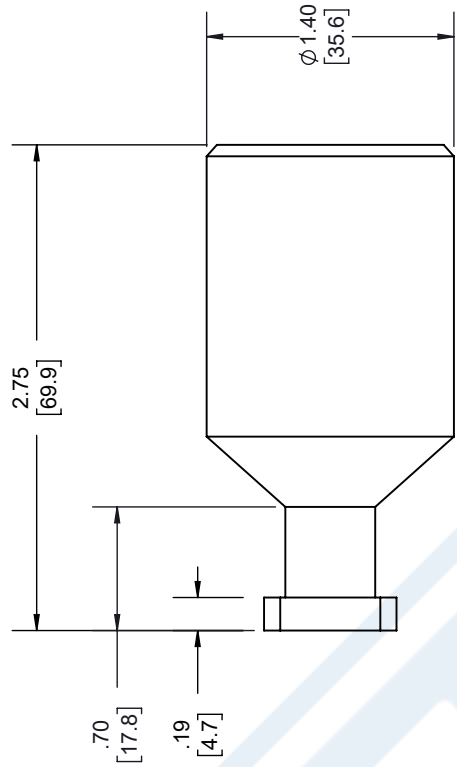
0.250 Inch Circular Waveguide Scalar Feed Horn Antenna, 33 GHz to 38.5 GHz Frequency Range, 17 dBi Gain, UG-599/U Flange

LABEL

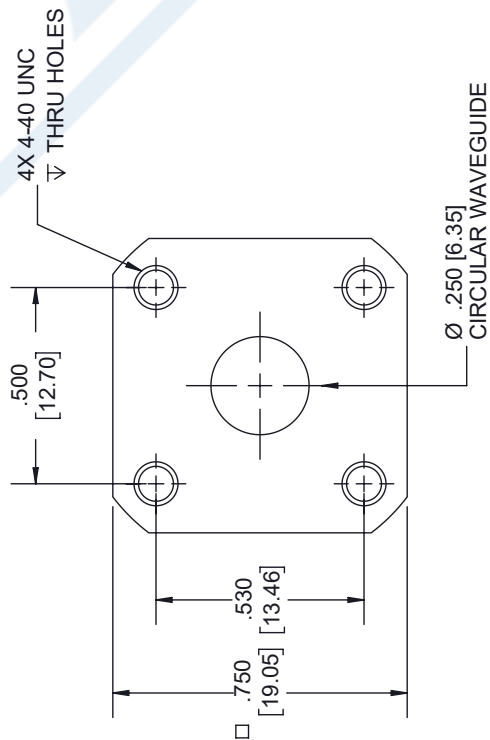
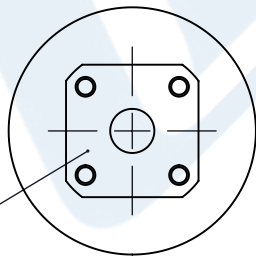
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REVISIONS

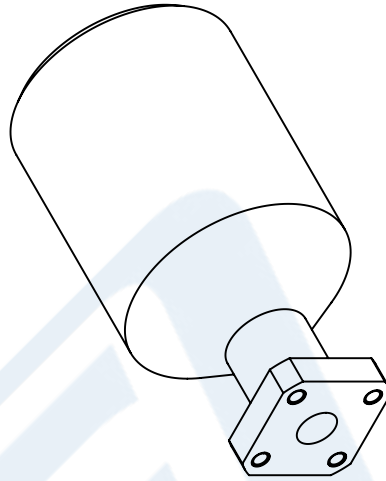
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08/16/19	M.MILLER



Ø .250 [6.35] CIRCULAR WAVEGUIDE
UG-599/U SQUARE FLANGE



FLANGE DETAIL



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±1/32
XX±.01 [.25]	±.005
XXX±.005 [.13]	±.001
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

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SHEET 1	OF 1
SCALE	N/A
PART NUMBER	PEWAN1115
REV	A

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