



WR-10 Waveguide Gaussian Optics Lens Antenna, 88 GHz to 100 GHz Frequency Range, 40 dBi Gain, UG-387/U-Mod Flange

Waveguide Antennas Technical Data Sheet

PEWAN1101

Features

- 88 GHz to 100 GHz Frequency Range
- WR-10 Waveguide
- UG-387/U-Mod Round Cover Flange
- Center Fed
- Low Sidelobes
- Low Cross Polarization
- Linear Polarized Waveforms

Applications

- Radar Systems
- Communication Systems
- Plasma Systems

Description

Pasternack's PEWAN1101 is a 6 inch W Band Gaussian antenna operating in the frequency range of 88 GHz to 100 GHz. The gaussian antenna offers a typical 40 dBi gain, 1.5 degrees typical half power beamwidth, -25 dB typical sidelobes levels, and -20 dB typical cross polarization. The antenna supports linear polarized waveforms and employs a corrugated feed horn to offer excellent aperture efficiency, high cross polarization rejections, and low sidelobe levels. PEWAN1101 is equipped with a WR-10 waveguide and UG-387/U-Mod round cover flange as its input port.

Configuration

Design: WR-10 Gaussian Optics Lens
Polarization: Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	88		100	GHz
Nominal Gain		40		dBi
Horizontal Half Power Beam Width		1.5		Degrees
Vertical Half Power Beam Width		1.5		Degrees
VSWR		1.1:1		

Mechanical Specifications

Size
Length: 10.3 in [261.62 mm]
Width: 7 in [177.8 mm]
Height: 7.31 in [185.67 mm]
Weight: 7.25 lbs [3.29 kg]

Waveguide Interface

Waveguide Size: WR-10
Flange Type: Round Cover
Flange Designation: UG-387/U-Mod

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-10 Waveguide Gaussian Optics Lens Antenna, 88 GHz to 100 GHz Frequency Range, 40 dBi Gain, UG-387/U-Mod Flange PEWAN1101](#)



WR-10 Waveguide Gaussian Optics Lens Antenna, 88 GHz to 100 GHz Frequency Range, 40 dBi Gain, UG-387/U-Mod Flange

Waveguide Antennas Technical Data Sheet

PEWAN1101

Body Material and Plating

Aluminum, Black

Environmental Specifications

Temperature

Operating Range

-40 to 85 deg C

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

Plotted and Other Data

WR-10 Waveguide Gaussian Optics Lens Antenna, 88 GHz to 100 GHz Frequency Range, 40 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-10 Waveguide Gaussian Optics Lens Antenna, 88 GHz to 100 GHz Frequency Range, 40 dBi Gain, UG-387/U-Mod Flange PEWAN1101](#)

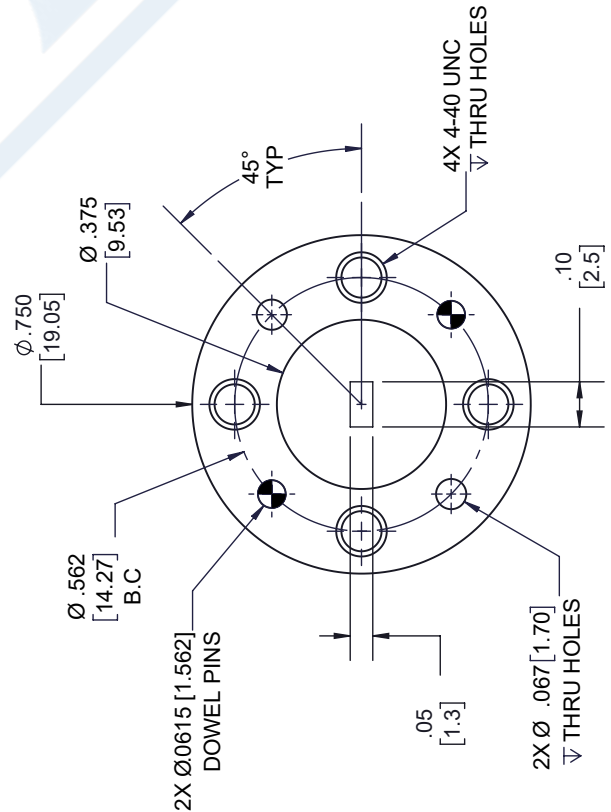
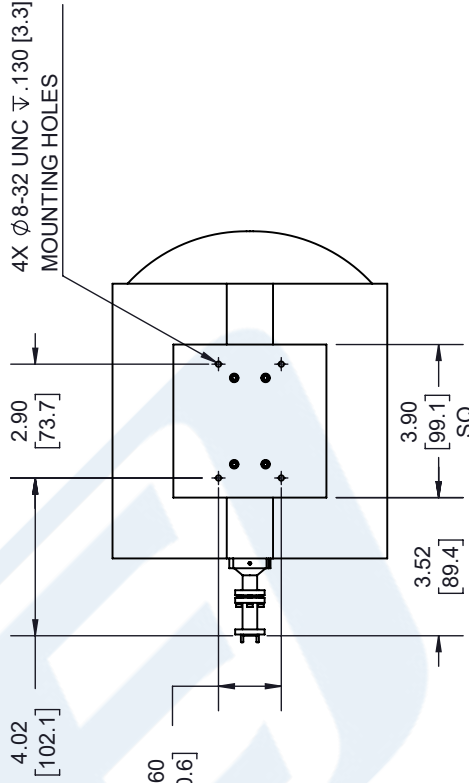
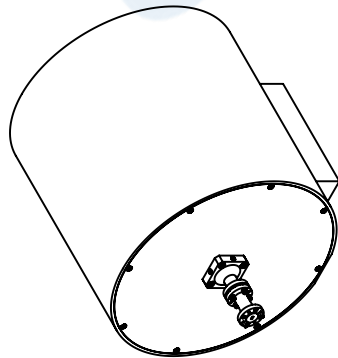
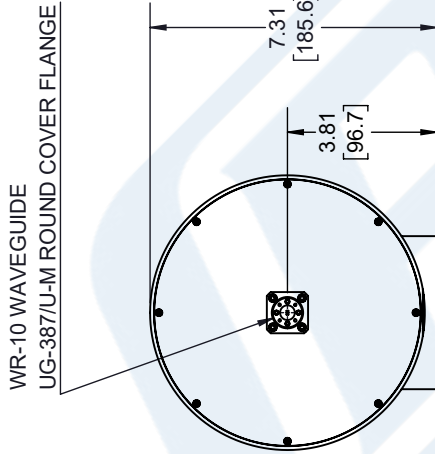
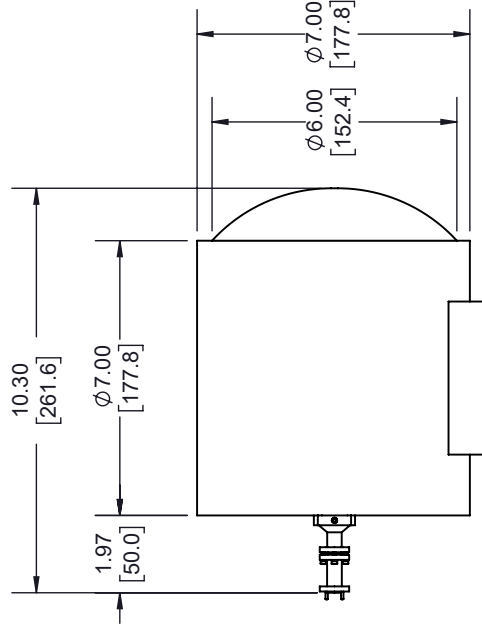
URL: <https://www.pasternack.com/wr-10-waveguide-gain-horn-antenna-40dbi-ug-387-mod-round-flange-pewan1101-p.aspx>

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.

PEWAN1101 CAD Drawing

WR-10 Waveguide Gaussian Optics Lens Antenna, 88 GHz to 100 GHz
Frequency Range, 40 dBi Gain, UG-387/U-Mod Flange

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08/13/19	M.MILLER



FLANGE DETAIL

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

PE PASTERNAK an INFINITI® 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	
SIZE	CAGE
A	53919
DRAWN BY	K.DANG
PART NUMBER	PEWAN1101
REV	A

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.	
SHEET	1 OF 1
SCALE	N/A

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT
ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.