



WR-10 Waveguide Omni-directional Antenna, 90 GHz to 100 GHz Frequency Range, 0 dBi Gain, UG-387/U-Mod Flange

Waveguide Antennas Technical Data Sheet

PEWAN1135

Features

- 360° Azimuth Coverage
- 60° Vertical 3 dB Beamwidth
- Vertically Polarized

Applications

- Communications Links
- EW Systems
- Indoor Local Area Networks

Description

Pasternack's PEWAN1135 is a WR-10 omnidirectional antenna that operates between 90 GHz and 100 GHz. This vertically polarized antenna offers 360 degrees azimuth coverage with ± 3 dB angular gain flatness. The antenna features a half power beam width of 60 degrees in the vertical direction and typical 0 dBi gain across the entire frequency range. The input of this antenna is a WR-10 waveguide with UG-387/U-Mod flange.

Configuration

Design	WR-10 Omni-directional
Pattern	Omni Directional
Polarization	Vertical

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	90		100	GHz
Nominal Gain		0		dBi
Gain Flatness		± 3		dB
Horizontal Half Power Beam Width		360		Degrees
Vertical Half Power Beam Width		60		Degrees
VSWR		2:1		

Mechanical Specifications

Size	
Length	1.04 in [26.42 mm]
Width	1.04 in [26.42 mm]
Height	0.4 in [10.16 mm]
Weight	0.1045 lbs [47.4 g]

Waveguide Interface

Waveguide Size	WR-10
Flange Type	Round Cover
Flange Designation	UG-387/U-Mod
Body Material and Plating	Aluminum, Chem Film

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 Omni-directional Antenna, 90 GHz to 100 GHz Frequency Range, 0 dBi Gain, UG-387/U-Mod Flange PEWAN1135](#)



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Environmental Specifications

Temperature

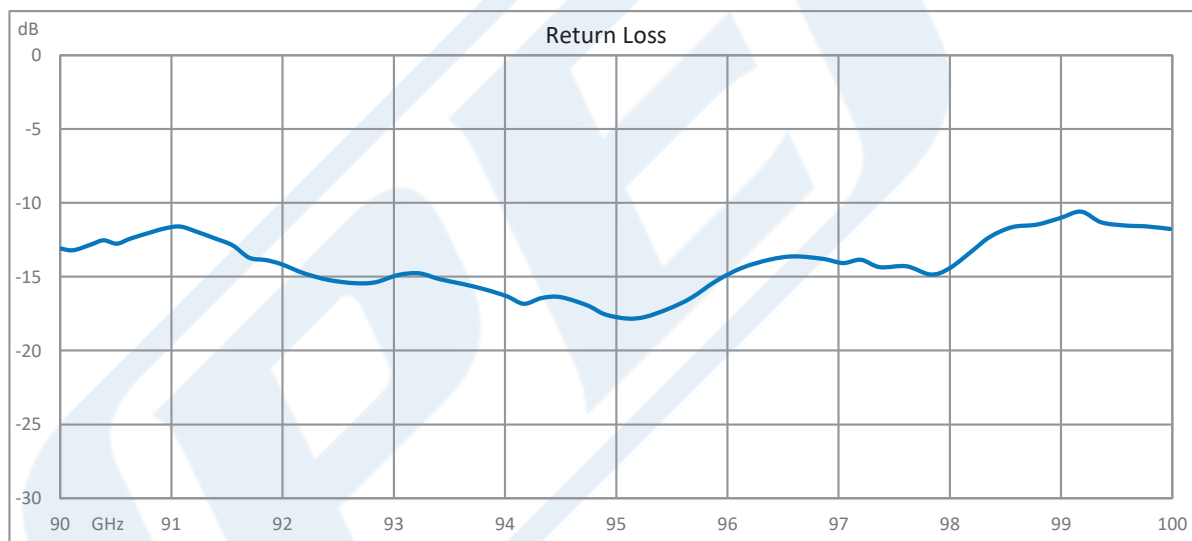
Operating Range

-40 to 85 deg C

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

Plotted and Other Data

Typical Performance Data



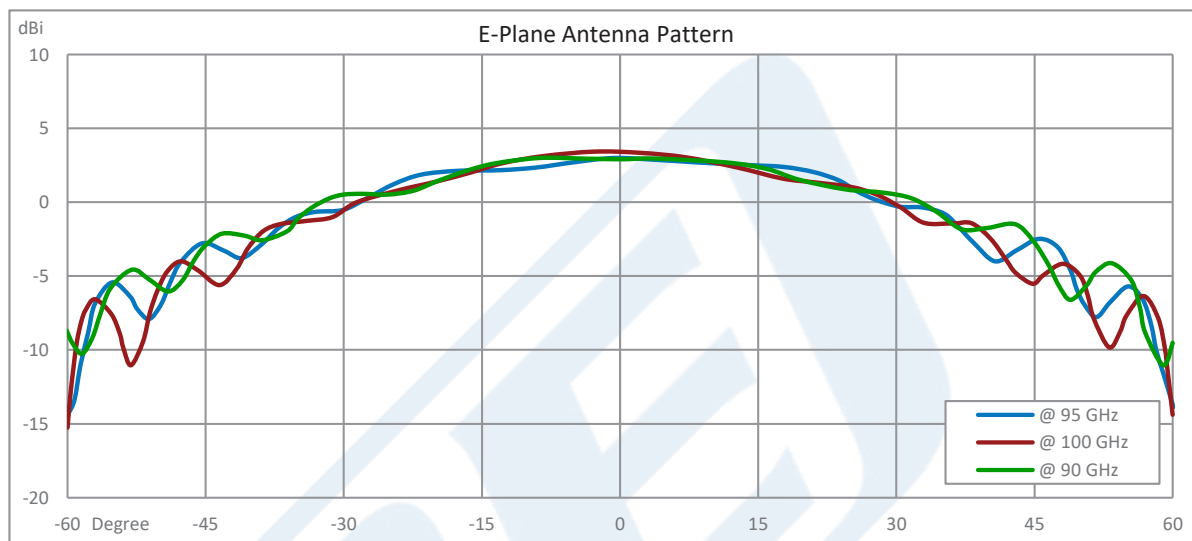
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WR-10 Waveguide Omni-directional Antenna, 90 GHz to 100 GHz Frequency Range, 0 dBi Gain, UG-387/U-Mod Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain 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 Omni-directional Antenna, 90 GHz to 100 GHz Frequency Range, 0 dBi Gain, UG-387/U-Mod Flange PEWAN1135](https://www.pasternack.com/wr-10-waveguide-gain-horn-antenna-0dbi-ug-387-mod-round-flange-pewan1135-p.aspx)

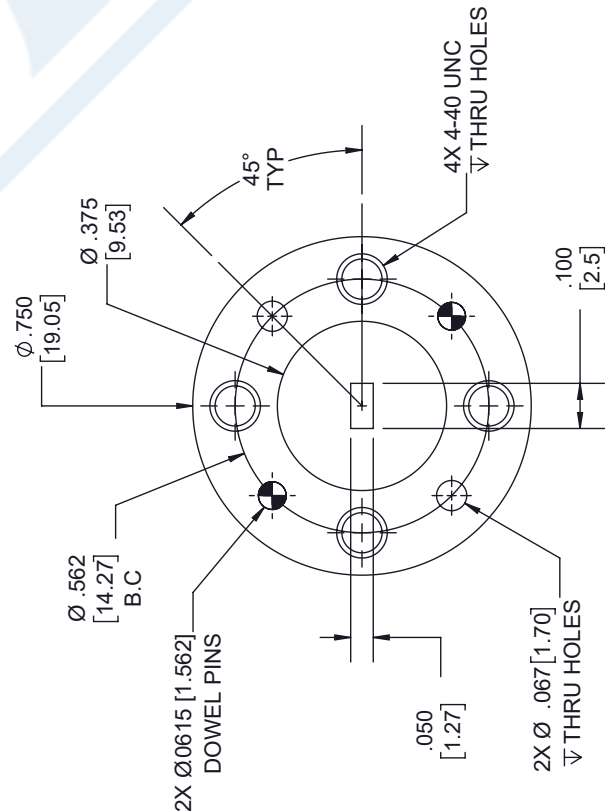
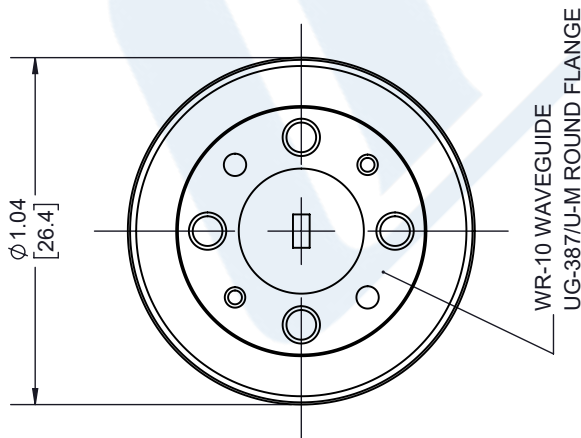
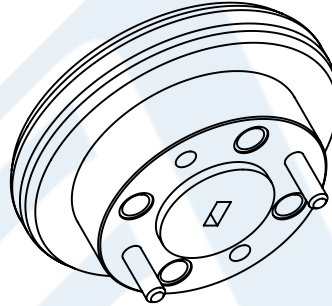
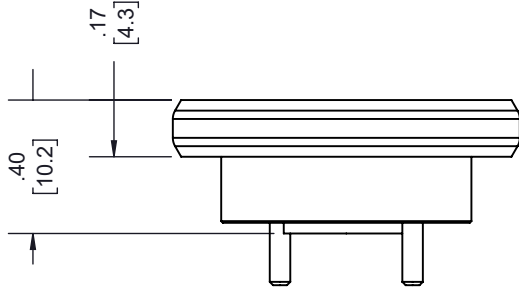
URL: <https://www.pasternack.com/wr-10-waveguide-gain-horn-antenna-0dbi-ug-387-mod-round-flange-pewan1135-p.aspx>

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PEWAN1135 CAD Drawing

WR-10 Waveguide Omni-directional Antenna, 90 GHz to 100 GHz
Frequency Range, 0 dBi Gain, UG-387/U-Mod Flange

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08/28/19	M.MILLER



FLANGE DETAIL

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

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SIZE	CAGE
A	53919
DRAWN BY	K.DANG
PART NUMBER	PEWAN1135
REV	A

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SHEET	1 OF 1
SCALE	N/A

LABEL

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D/C: YYWW