



WR-10 Waveguide Lens Horn Antenna Operating
from 89 GHz to 99 GHz with a Nominal 34 dBi
Gain with UG-387/U Round Cover Flange

Gain Horns Technical Data Sheet

PEWAN1083

Features

- Circular Waveguide Interface
- 94 GHz center frequency
- 34 dBi Nominal Gain
- UG-387/U Round Cover Flange

Applications

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

Description

Waveguide horn lens 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 PEWAN1083 WR-10 waveguide horn lens antenna operating from 94 GHz center frequency with a nominal 34 dBi gain is part of our full line of RF components available for same-day shipping. This Pasternack circular horn antenna has a precision tolerance UG-387/U round cover flange. The PEWAN1083 WR-10 waveguide horn lens antenna offers low gain variation across its operating frequency range.

Configuration

Design	WR-10 Lens Horn
Pattern	Directional
Polarization	Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	89		99	GHz
Nominal Gain		34		dBi
Horizontal Half Power Beam Width		3		Degrees
Vertical Half Power Beam Width		3		Degrees
VSWR		1.5:1		

Mechanical Specifications

Size	
Length	5.14 in [130.56 mm]
Width	3 in [76.2 mm]
Height	3 in [76.2 mm]
Weight	0.716 lbs [324.77 g]

Waveguide Interface

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

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 Lens Horn Antenna Operating from 89 GHz to 99 GHz with a Nominal 34 dBi Gain with UG-387/U Round Cover Flange PEWAN1083](#)



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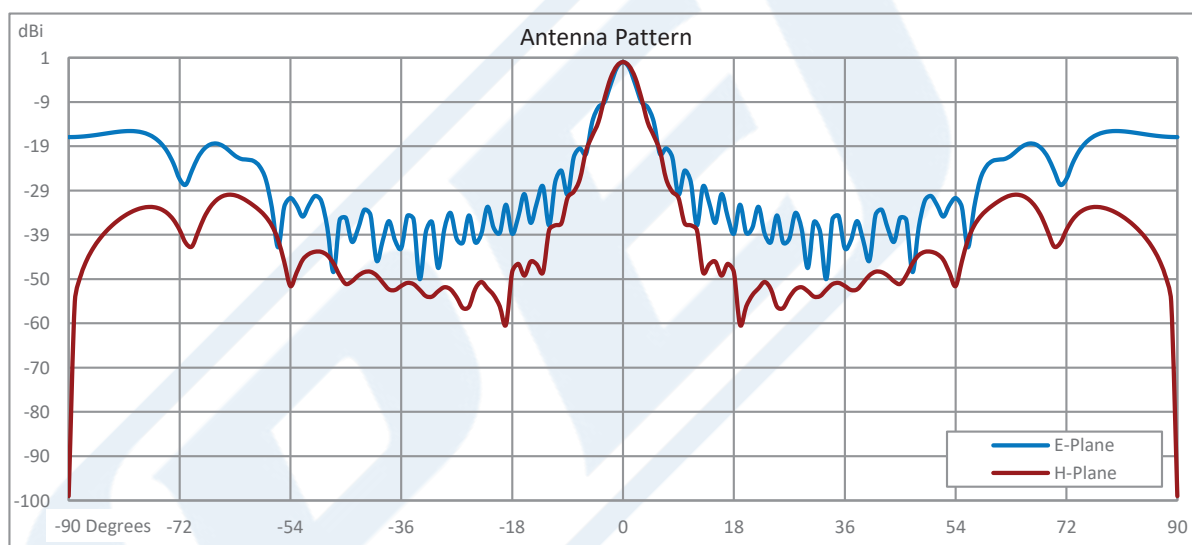
Body Material and Plating

Aluminum

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

Plotted and Other Data

Typical Performance Data



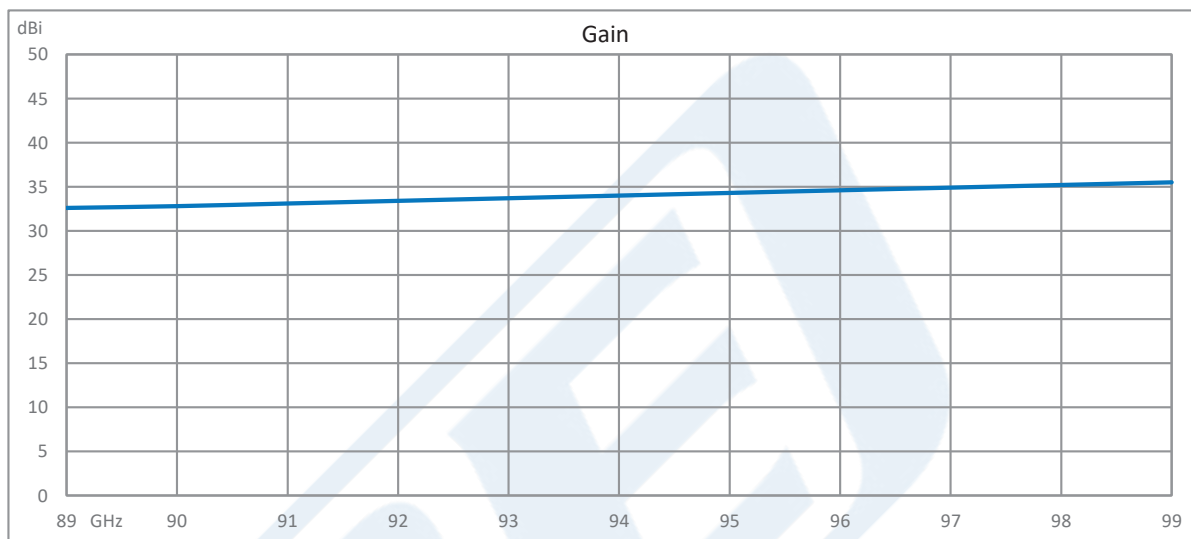
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WR-10 Waveguide Lens Horn Antenna Operating from 89 GHz to 99 GHz with a Nominal 34 dBi Gain with UG-387/U Round Cover Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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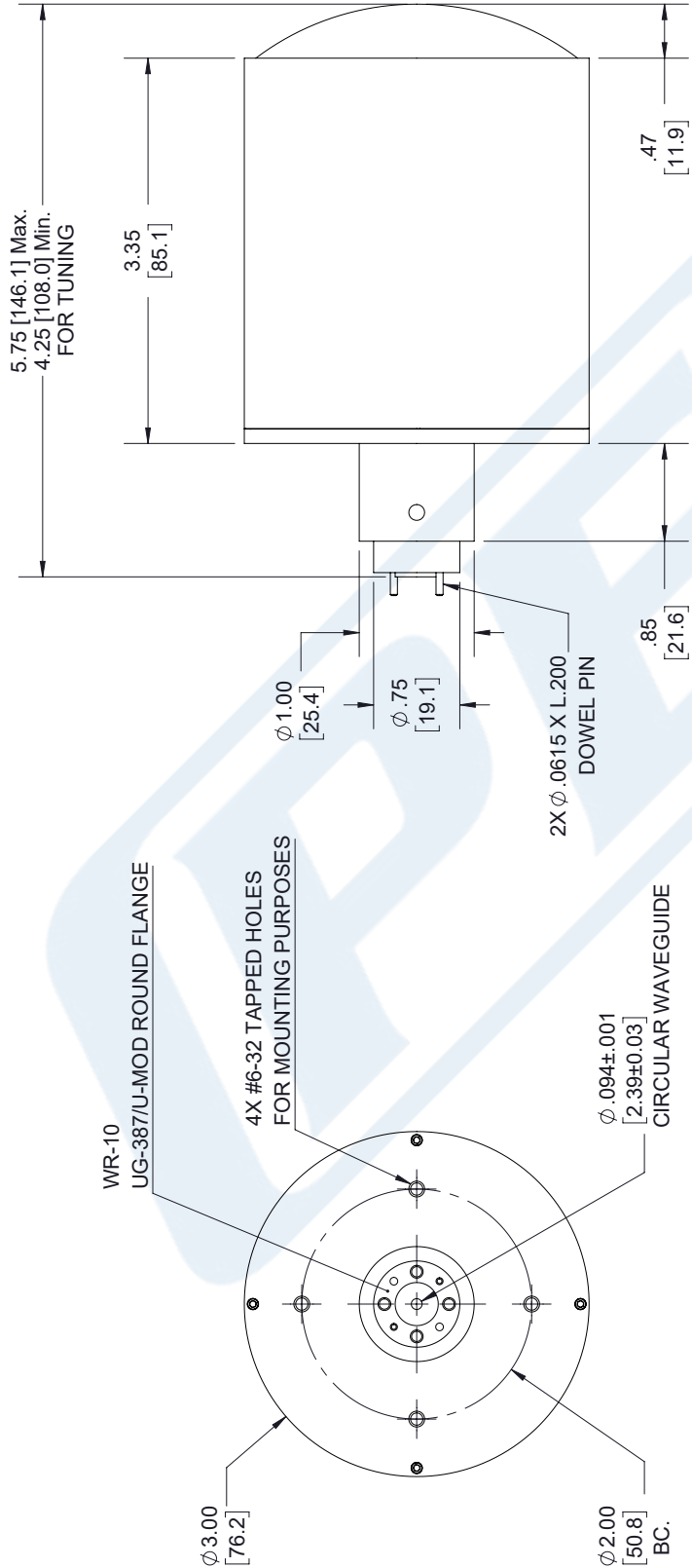
URL: <https://www.pasternack.com/wr-10-waveguide-gain-horn-antenna-34dbi-ug-387-round-flange-pewan1083-p.aspx>

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PEWAN1083 CAD Drawing

WR-10 Waveguide Lens Horn Antenna Operating from 89 GHz to 99 GHz
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/20/19	M.MILLER



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±.132
XX±.01 [0.25]	±.005
XXX±.005 [0.13]	±.001
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

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SIZE	CAGE
A	53919
DRAWN BY	K.DANG
PART NUMBER	PEWAN1083
REV	A

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SHEET	1 OF 1
SCALE	N/A

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