



WR-8 Waveguide Standard Gain Horn Antenna Operating
from 90 GHz to 140 GHz with a Nominal 20 dBi Gain
with UG-387/U-Mod Round Cover Flange

Gain Horns Technical Data Sheet

PEWAN1023

Features

- Rectangular Waveguide Interface
- 90 GHz to 140 GHz
- 20 dBi Nominal Gain
- UG-387/U-Mod Round Cover Flange

Applications

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

Description

Waveguide standard gain horn 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 PEWAN1023 WR-8 waveguide standard gain horn antenna operating from 90 GHz to 140 GHz with a nominal 20 dBi gain is part of our full line of RF components available for same-day shipping. This Pasternack pyramidal horn antenna has a gold plated brass body and a precision tolerance UG-387/U-Mod round cover flange. The PEWAN1023 WR-8 waveguide standard gain horn antenna offers low gain variation across its operating frequency range.

Configuration

Design	WR-8 Standard Gain Horn
Pattern	Directional
Polarization	Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	90		140	GHz
Nominal Gain		20		dBi
Gain	19		21.5	dBi
Horizontal Half Power Beam Width		18		Degrees
Vertical Half Power Beam Width		16		Degrees
VSWR		1.15:1		

Mechanical Specifications

Size

Length	1.66 in [42.16 mm]
Width	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	0.048 lbs [21.77 g]

Waveguide Interface

Waveguide Size	WR-8
Flange Type	Round Cover

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-8 Waveguide Standard Gain Horn Antenna Operating from 90 GHz to 140 GHz with a Nominal 20 dBi Gain with UG-387/U-Mod Round Cover Flange PEWAN1023](#)



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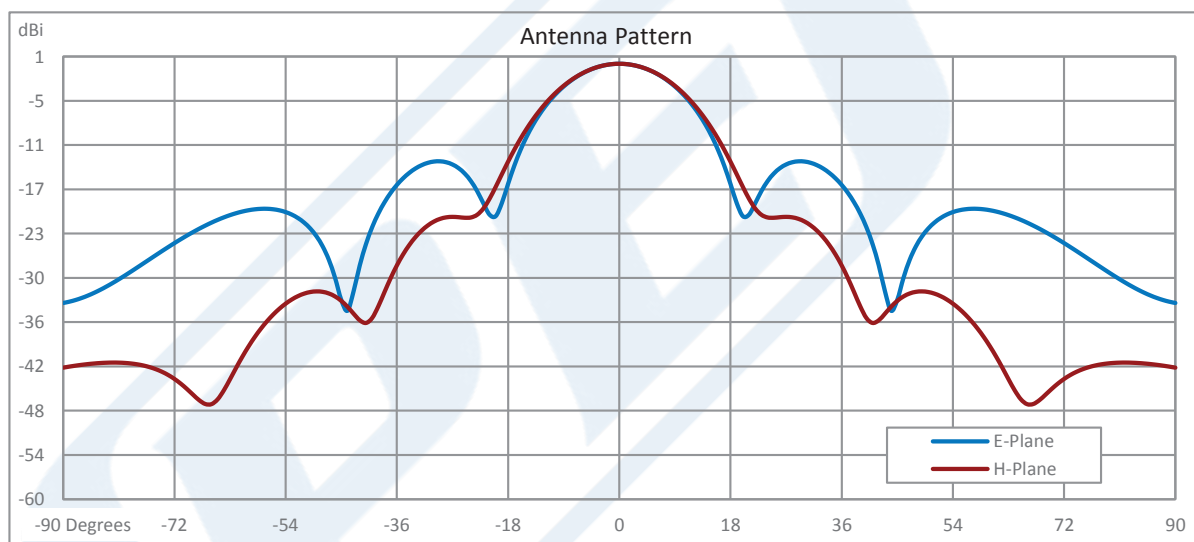
Flange Designation
Body Material and Plating

UG-387/U-Mod
Brass, Gold

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

Plotted and Other Data

Typical Performance Data



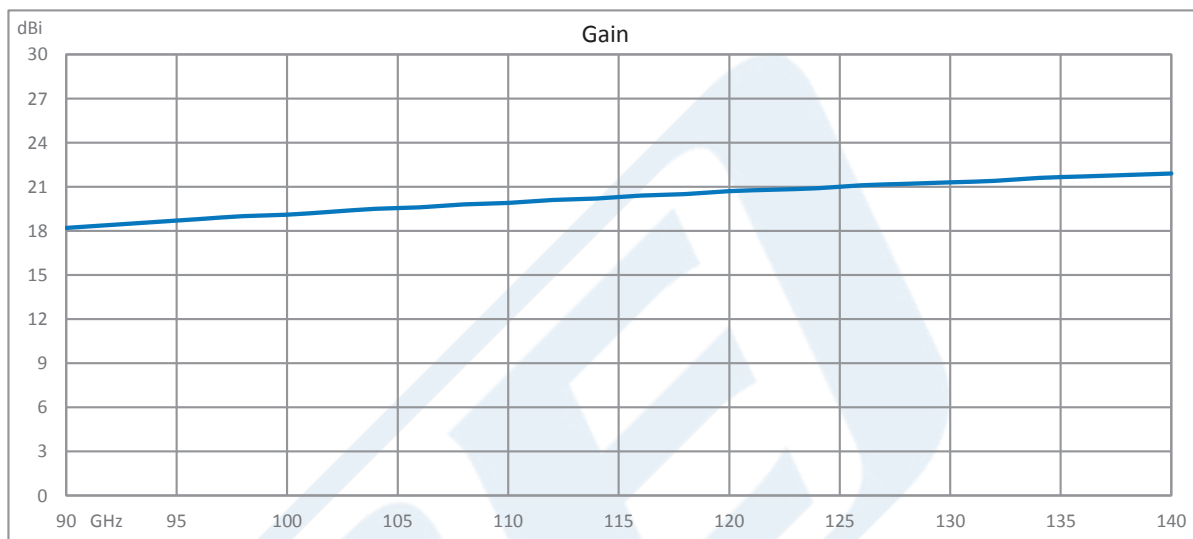
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WR-8 Waveguide Standard Gain Horn Antenna Operating from 90 GHz to 140 GHz with a Nominal 20 dBi Gain with UG-387/U-Mod Round Cover Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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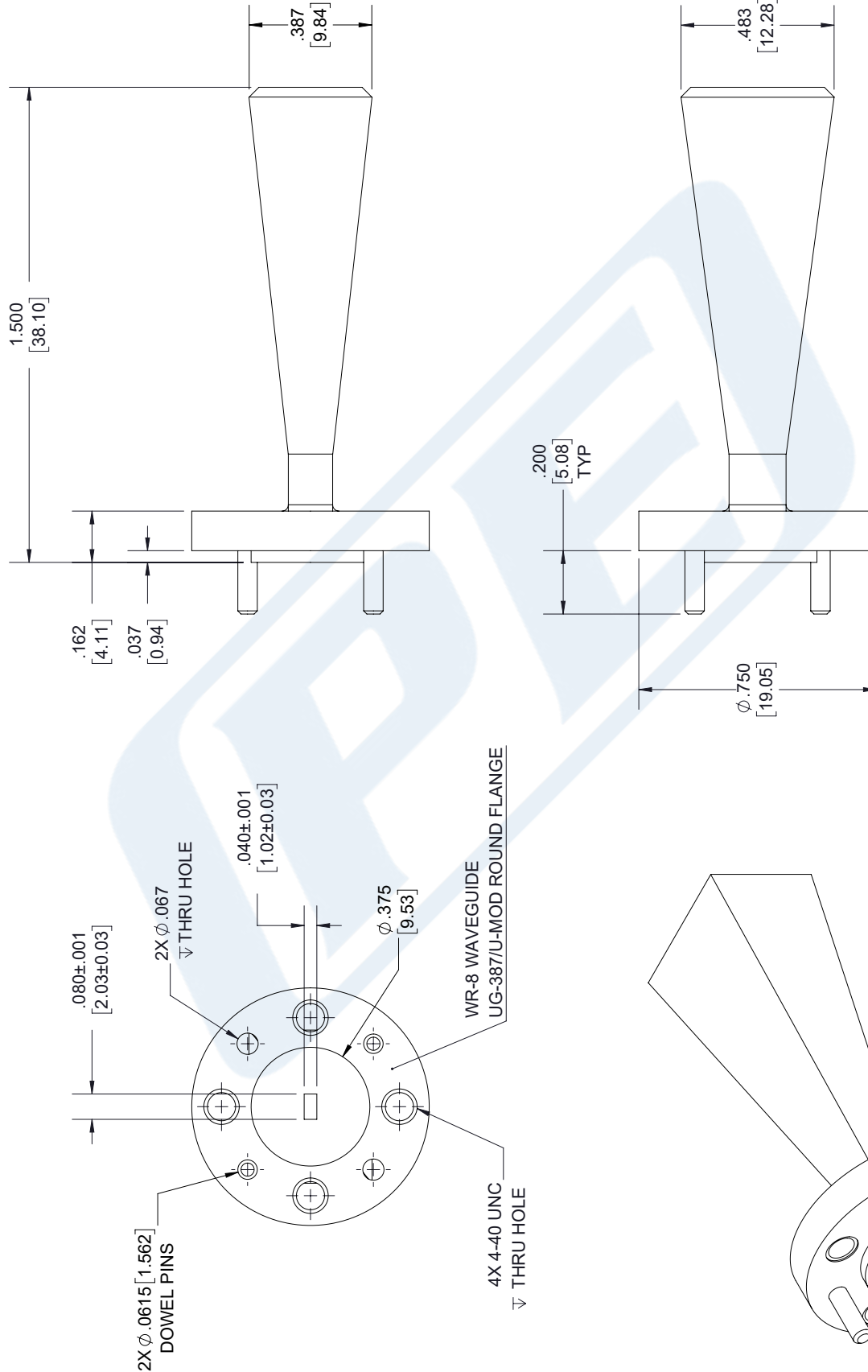
URL: <https://www.pasternack.com/wr-8-waveguide-gain-horn-antenna-20dbi-ug-387-mod-round-flange-pewan1023-p.aspx>

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PEWAN1023 CAD Drawing

WR-8 Waveguide Standard Gain Horn Antenna Operating from 90 GHz to 140 GHz
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/21/19	M.MILLER



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE IN MILLIMETERS			
TOLERANCES:			
X±.2	[5.08]	FRACTIONS	
XX±.01	[.25]		±.132
XXX±.005	[.13]	ANGLES ± 1°	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			
THIRD-ANGLE PROJECTION			

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SIZE	CAGE	DRAWN BY	PART NUMBER
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