



WR-19 Waveguide Probe Antenna Operating from
40 GHz to 60 GHz with a Nominal 6.5 dBi Gain
with UG-383/U-Mod Round Cover Flange

Waveguide Antennas Technical Data Sheet

PEWAN1129

Features

- Rectangular Waveguide Interface
- Precisely Machined and Gold Plated
- Linear Polarization
- High Return Loss

Applications

- Antenna Ranges
- Antenna Gain Measurements
- System Setups

Description

Pasternack's PEWAN1129 is a U-Band probe antenna that operates from 40 GHz to 60 GHz. The antenna offers 6.5 dBi nominal gain and 115 degrees typical half power beamwidth on the E-Plane and 60 degrees typical half power beamwidth on the H-Plane. The antenna supports linear polarized waveforms. The input of this antenna is a WR-19 waveguide with UG383/U-M flange.

Configuration

Design
Polarization

WR-19 Probe
Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	40		60	GHz
Nominal Gain		6.5		dBi
Horizontal Half Power Beam Width		60		Degrees
Vertical Half Power Beam Width		115		Degrees
VSWR		2:1		

Mechanical Specifications

Size

Length	2 in [50.8 mm]
Width	1.125 in [28.58 mm]
Height	1.125 in [28.58 mm]
Weight	0.153 lbs [69.4 g]

Waveguide Interface

Waveguide Size	WR-19
Flange Type	Round Cover
Flange Designation	UG-383/U-Mod
Body Material and Plating	Brass, Gold

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-19 Waveguide Probe Antenna Operating from 40 GHz to 60 GHz with a Nominal 6.5 dBi Gain with UG-383/U-Mod Round Cover Flange PEWAN1129](#)



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Environmental Specifications

Temperature

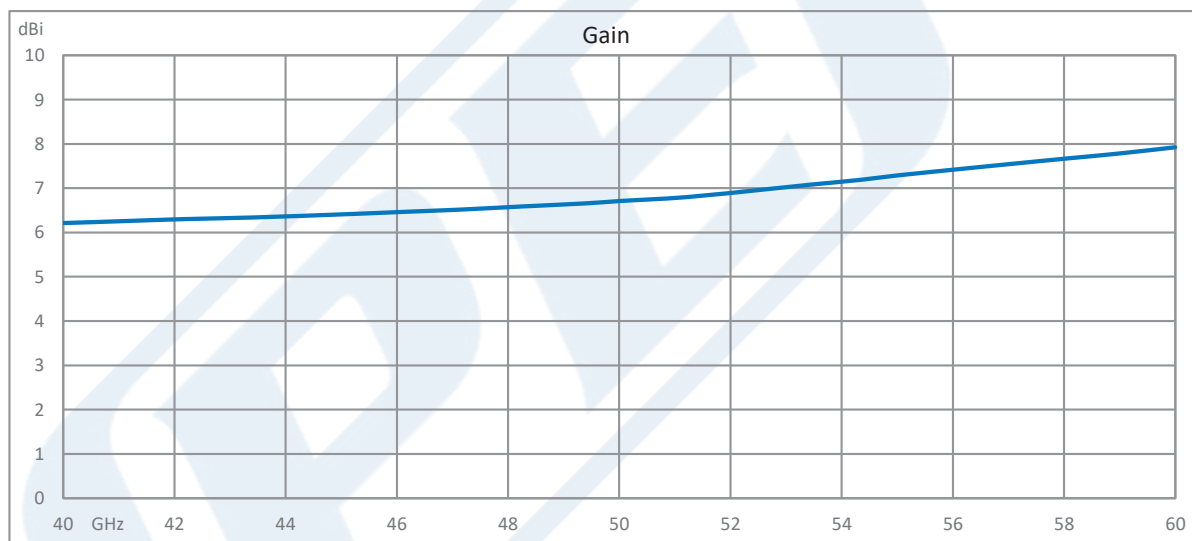
Operating Range

-40 to 85 deg C

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

Plotted and Other Data

Typical Performance Data



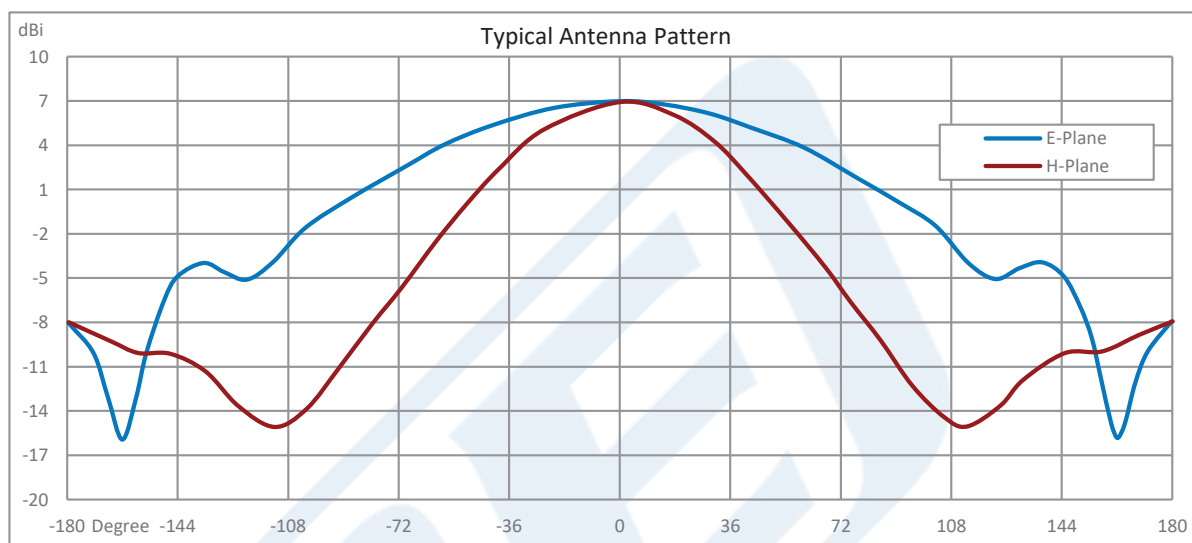
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WR-19 Waveguide Probe Antenna Operating from 40 GHz to 60 GHz with a Nominal 6.5 dBi Gain with UG-383/U-Mod Round Cover Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-19 Waveguide Probe Antenna Operating from 40 GHz to 60 GHz with a Nominal 6.5 dBi Gain with UG-383/U-Mod Round Cover Flange PEWAN1129](https://www.pasternack.com/wr-19-waveguide-gain-horn-antenna-6.5dbi-ug-383-mod-round-flange-pewan1129-p.aspx)

URL: <https://www.pasternack.com/wr-19-waveguide-gain-horn-antenna-6.5dbi-ug-383-mod-round-flange-pewan1129-p.aspx>

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PEWAN1129 CAD Drawing

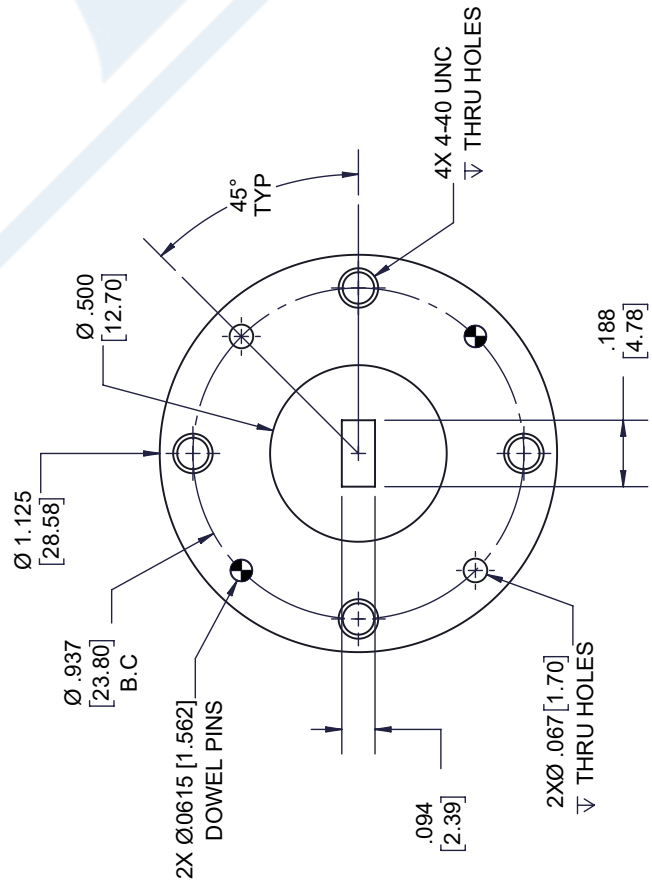
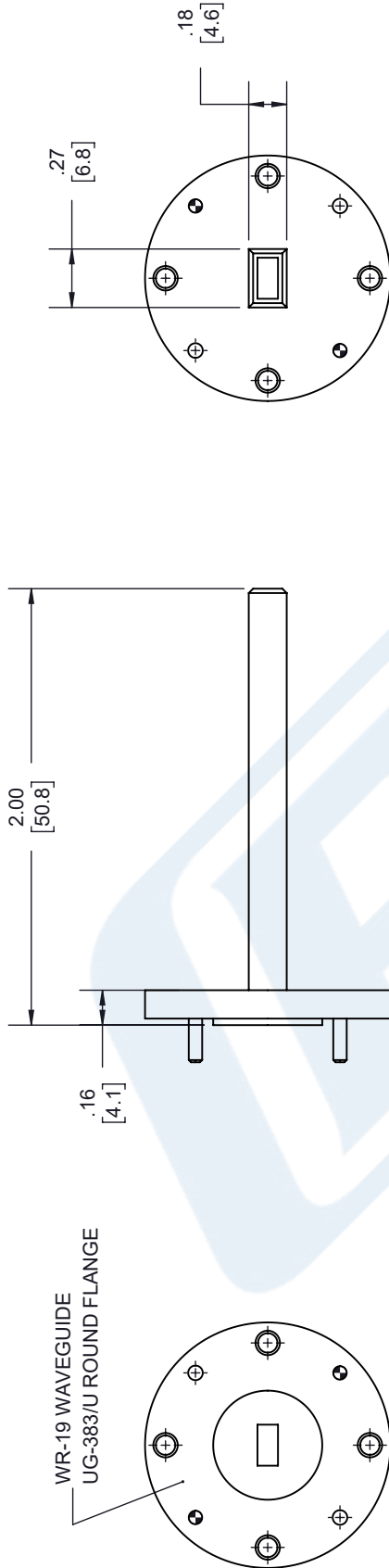
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LABEL

PASTERNAK
PEWAN1129
D/C: YYWW

REVISIONS

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



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±1/32
XX±.01 [.25]	±1/64
XXX±.005 [.13]	±.005
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	
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SCALE	N/A
SIZE [CAGE]	53919
DRAWN BY	K.DANG
PART NUMBER	PEWAN1129
REV	A

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