



WR-28 Waveguide Sector Antenna Operating
from 30 GHz to 40 GHz with a Nominal 0 dBi Gain
with UG-599/U-Mod Square Cover Flange

Waveguide Antennas Technical Data Sheet

PEWAN1144

Features

- 120° Azimuth Coverage
- 60° Vertical 3 dB Beamwidth
- Vertically Polarized

Applications

- Communications Links
- EW Systems
- Indoor Local Area Networks

Description

Pasternack's PEWAN1144 is a WR-28 sector antenna that operates between 30 GHz and 40 GHz. This vertically polarized antenna offers 120 degrees azimuth coverage with 0 dBi gain and ± 3 dB gain flatness. The antenna features a half power beam width of 60 degrees in the vertical direction. The input of this antenna is a WR-28 waveguide with UG-599/U-Mod flange.

Configuration

Design
Polarization

WR-28 Sector
Vertical

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	30		40	GHz
Nominal Gain		0		dBi
Gain Flatness		± 3		dB
Horizontal Half Power Beam Width		120		Degrees
Vertical Half Power Beam Width		60		Degrees
VSWR		2:1		

Mechanical Specifications

Size

Length	0.87 in [22.1 mm]
Width	2 in [50.8 mm]
Weight	2.7 lbs [1.22 kg]

Waveguide Interface

Waveguide Size	WR-28
Flange Type	Square Cover
Flange Designation	UG-599/U-Mod
Body Material and Plating	Aluminum, Gold

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-28 Waveguide Sector Antenna Operating from 30 GHz to 40 GHz with a Nominal 0 dBi Gain with UG-599/U-Mod Square Cover Flange PEWAN1144](#)



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Environmental Specifications

Temperature

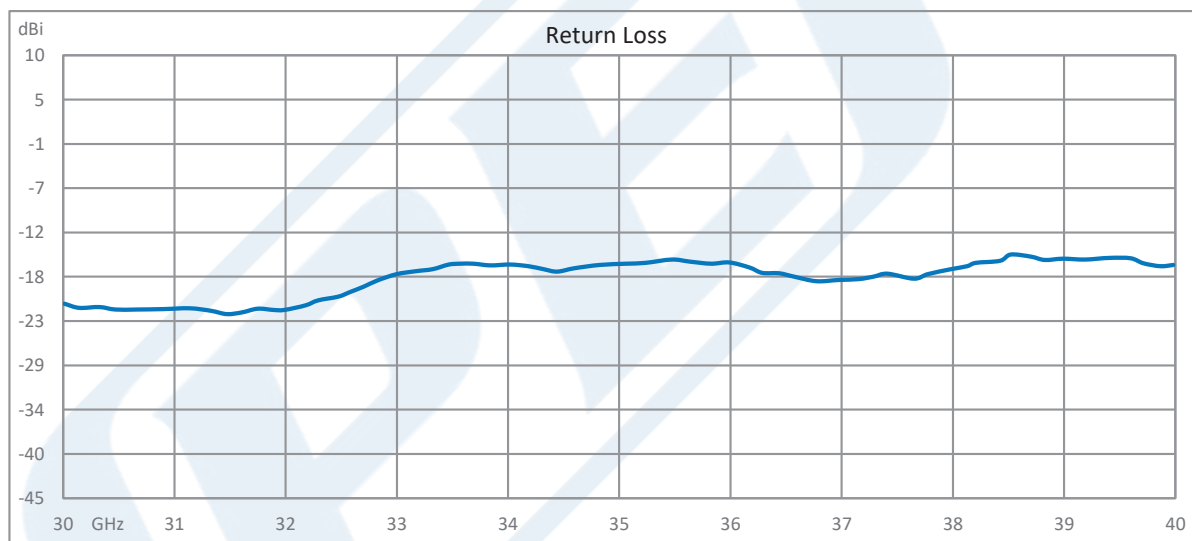
Operating Range

-40 to 85 deg C

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

Plotted and Other Data

Typical Performance Data



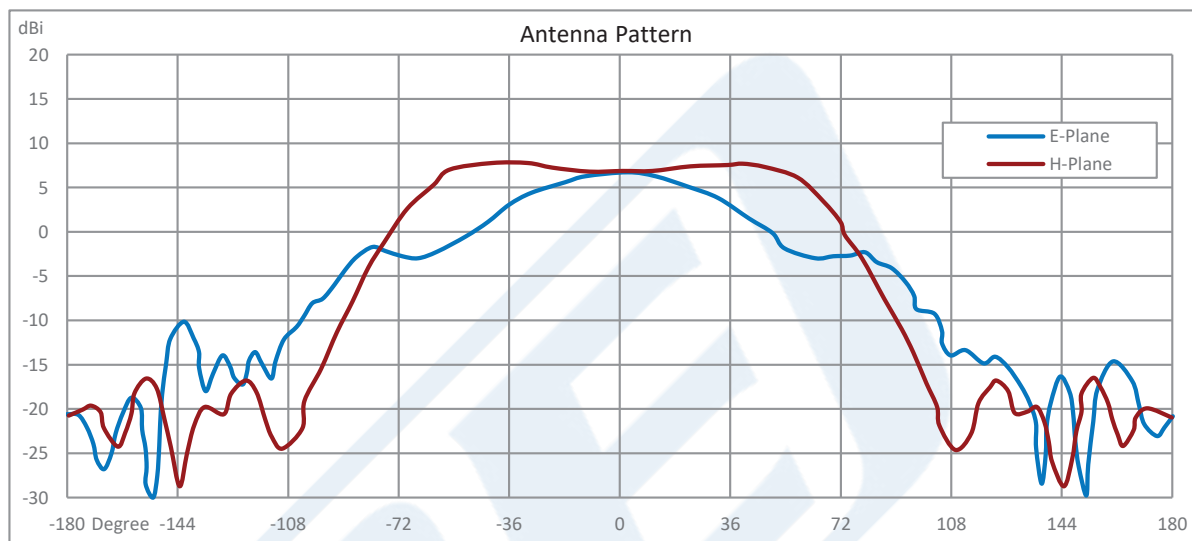
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WR-28 Waveguide Sector Antenna Operating from 30 GHz to 40 GHz with a Nominal 0 dBi Gain with UG-599/U-Mod Square Cover Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter 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-28 Waveguide Sector Antenna Operating from 30 GHz to 40 GHz with a Nominal 0 dBi Gain with UG-599/U-Mod Square Cover Flange PEWAN1144](https://www.pasternack.com/wr-28-waveguide-gain-horn-antenna-0dbi-ug-599-mod-square-flange-pewan1144-p.aspx)

URL: <https://www.pasternack.com/wr-28-waveguide-gain-horn-antenna-0dbi-ug-599-mod-square-flange-pewan1144-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.

PEWAN1144 CAD Drawing

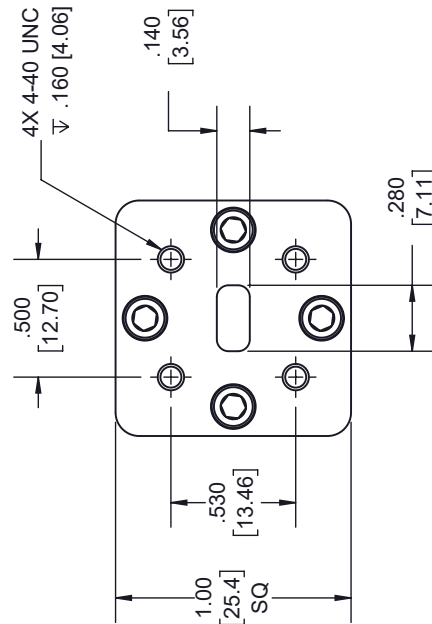
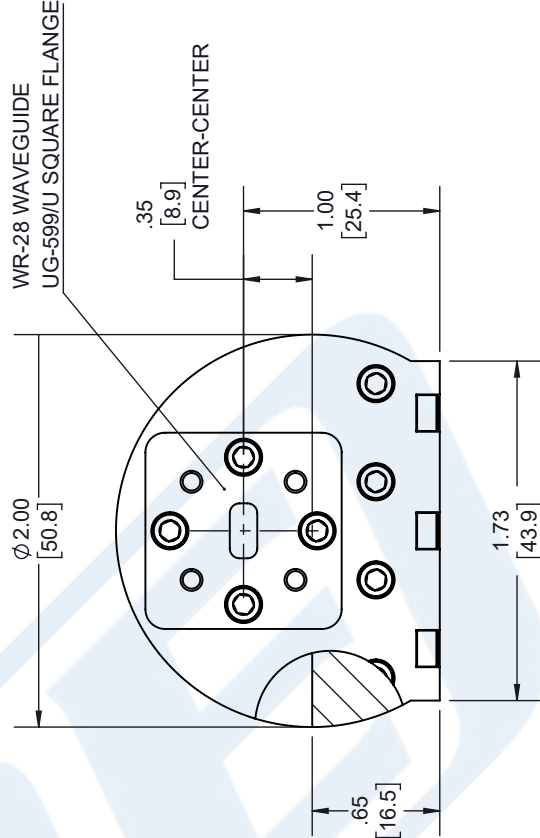
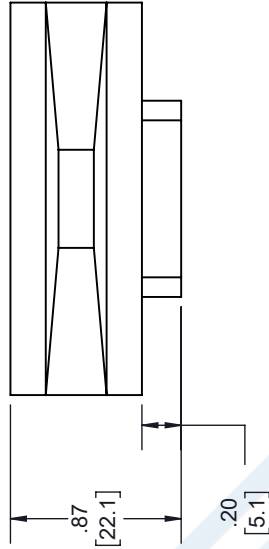
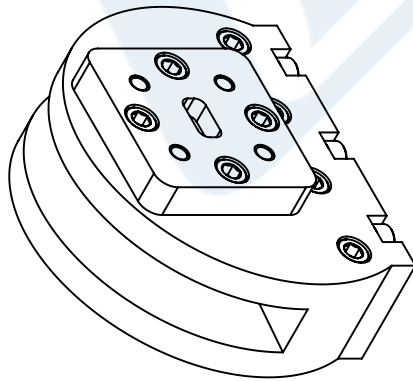
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LABEL

PASTERNAK
PEWAN1144
D/C: YYWW

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08/30/19	M.MILLER



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

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SIZE	CAGE
A	53919
DRAWN BY	K.DANG
PART NUMBER	PEWAN1144
REV	A

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SCALE	N/A

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