



WR-28 Waveguide Sector Antenna Operating
from 27.5 GHz to 29.5 GHz with a Nominal 6 dBi
Gain with UG-599/U Square Cover Flange

Waveguide Antennas Technical Data Sheet

PEWAN1143

Features

- 180° Azimuth Coverage
- 45° Vertical 3 dB Beamwidth
- Vertically Polarized

Applications

- Communications Links
- EW Systems
- Indoor Local Area Networks

Description

Pasternack's PEWAN1143 is a WR-28 sector antenna that operates between 27.5 GHz and 29.5 GHz. This vertically polarized antenna offers 180 degrees azimuth coverage with 6 dB gain and ± 3 dB gain flatness. The antenna features a half power beam width of 45 degrees in the vertical direction. The input of this antenna is a WR-28 waveguide with UG-599/U flange.

Configuration

Design
Polarization

WR-28 Sector
Vertical

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	27.5		29.5	GHz
Nominal Gain		6		dBi
Gain Flatness		± 3		dB
Horizontal Half Power Beam Width		180		Degrees
Vertical Half Power Beam Width		45		Degrees
VSWR		1.5:1		

Mechanical Specifications

Size

Length	1.03 in [26.16 mm]
Width	3 in [76.2 mm]
Height	2.76 in [70.1 mm]
Weight	0.38 lbs [172.37 g]

Waveguide Interface

Waveguide Size	WR-28
Flange Type	Square Cover
Flange Designation	UG-599/U
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 27.5 GHz to 29.5 GHz with a Nominal 6 dBi Gain with UG-599/U Square Cover Flange PEWAN1143](#)



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Environmental Specifications

Temperature

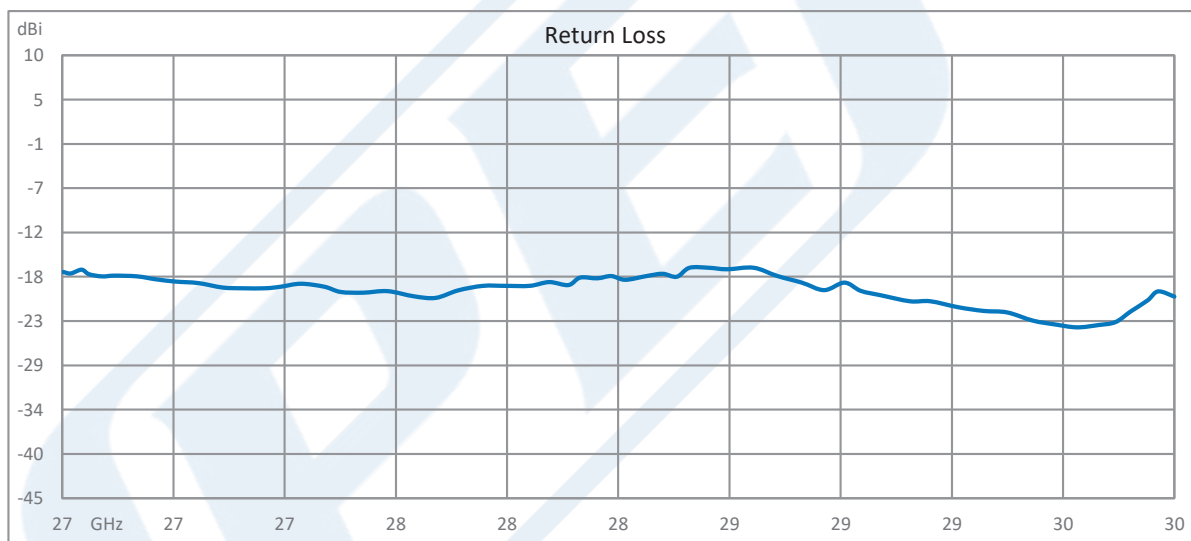
Operating Range

-40 to 85 deg C

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

Plotted and Other Data

Typical Performance Data



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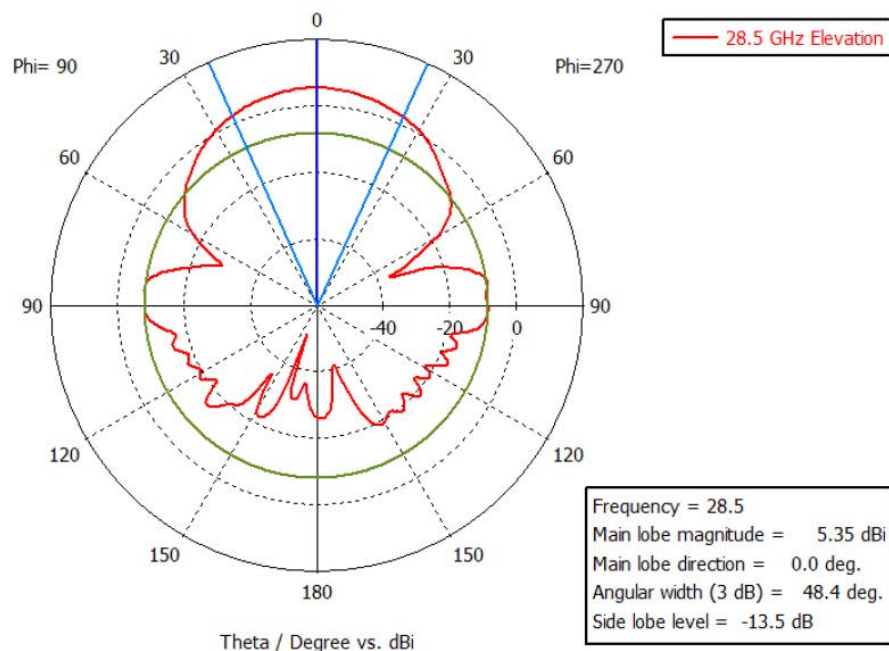


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Simulated E Plane Pattern @ 28.5 GHz



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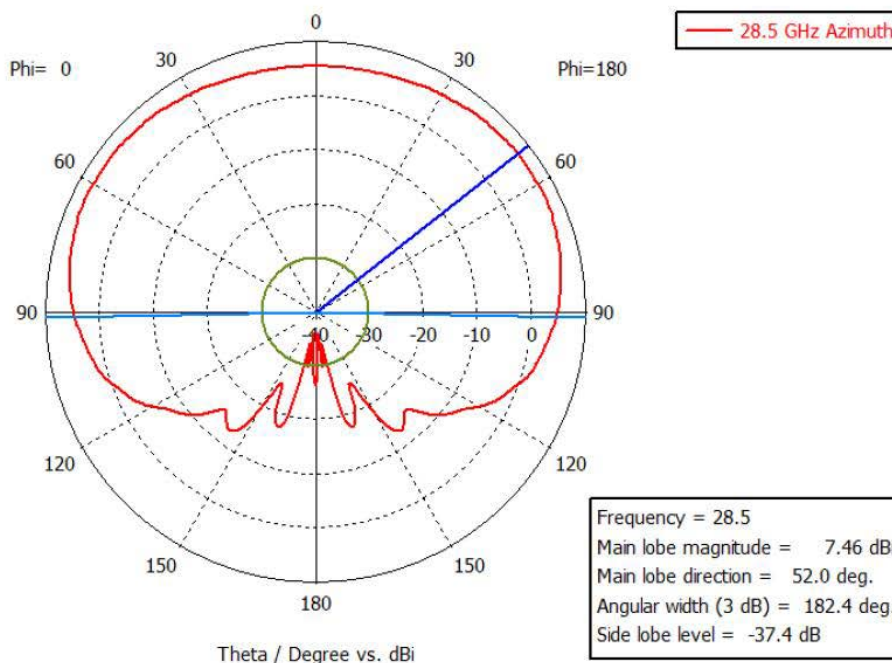


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Simulated H Plane Pattern @ 28.5 GHz



WR-28 Waveguide Sector Antenna Operating from 27.5 GHz to 29.5 GHz with a Nominal 6 dBi Gain with UG-599/U 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 27.5 GHz to 29.5 GHz with a Nominal 6 dBi Gain with UG-599/U Square Cover Flange PEWAN1143](https://www.pasternack.com/wr-28-waveguide-gain-horn-antenna-6dbi-ug-599-square-flange-pewan1143-p.aspx)

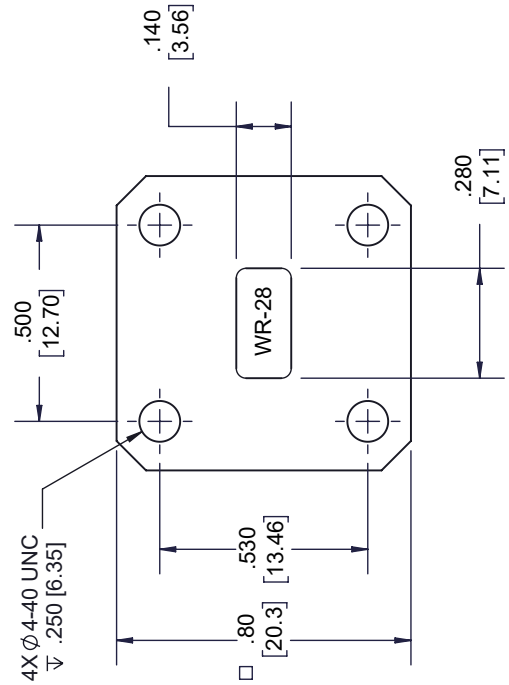
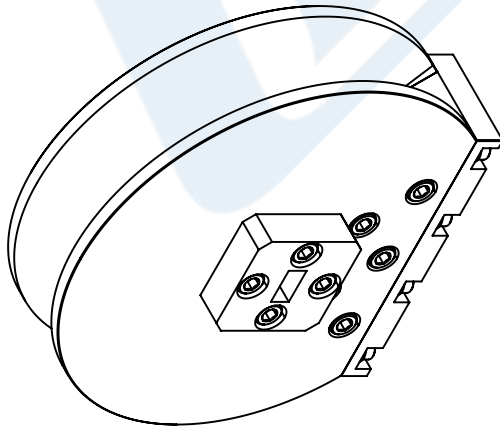
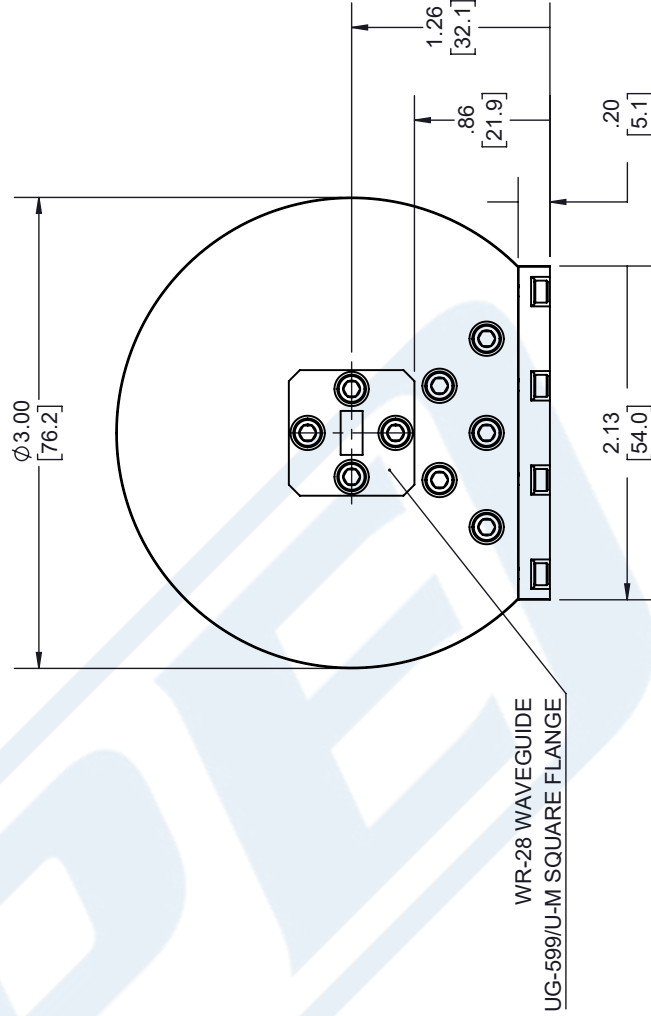
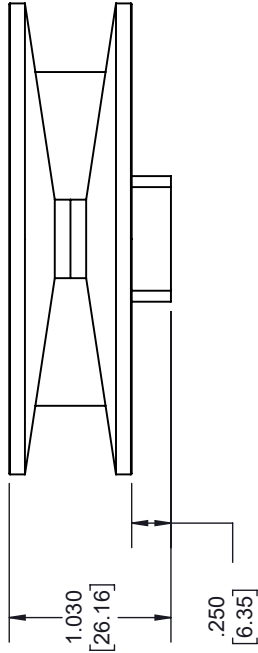
URL: <https://www.pasternack.com/wr-28-waveguide-gain-horn-antenna-6dbi-ug-599-square-flange-pewan1143-p.aspx>

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PEWAN1143 CAD Drawing

WR-28 Waveguide Sector Antenna Operating from 27.5 GHz to 29.5 GHz
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08/30/19	M.MILLER



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SHEET 1 OF 1		SCALE N/A	
SIZE A		PART NUMBER PEWAN1143	
DRAWN BY K.DANG		REV A	

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

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LABEL

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