



WR-28 Waveguide Antenna, 26.5 GHz to
40 GHz Frequency Range, 15 dBi Gain, UG-599/U Flange,
Integrated Cage-Style Mount

Waveguide Antennas Technical Data Sheet

PE1WAN028-15

Features

- WR-28 Rectangular Waveguide Interface
- 26.5 GHz to 40 GHz
- 15 dBi Nominal Gain
- UG-599/U Cover Flange
- Ka Band
- Ruggedized Aluminum Cage-Style Mount
- Integrates with Positioning Systems

Applications

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

Description

The PE1WAN028-15 Ka Band standard gain horn antenna (also known as waveguide horn) from Pasternack has a nominal gain of 15 dBi. This WR-28 standard gain horn has a UG-599/U type flange and integrated cage-style mount. The mount is a ruggedized aluminum mounting solution that integrates with test and measurement positioning systems, ensuring precise alignment and protection of the antenna. The Pasternack 15 dBi WR-28 horn antenna operates from 26.5 GHz to 40 GHz. The WR-28 PE1WAN028-15 waveguide horn is powder coated Aluminum for added protection and corrosion resistance. It is part of over 40,000 RF, microwave and millimeter wave components available from Pasternack.

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. Pasternack's WR-28 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Our WR-28 standard gain horn antennas can ship worldwide the same day as it is purchased as with our other available RF parts.

Configuration

Design	WR-28
Polarization	Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	26.5		40	GHz
Nominal Gain		15		dBi
Horizontal Half Power Beam Width		31		Degrees
Vertical Half Power Beam Width		32		Degrees
VSWR		1.3:1		

Mechanical Specifications

Size	
Length	3.15 in [80.01 mm]
Width	3.15 in [80.01 mm]
Height	4.21 in [106.93 mm]
Weight	0.461 lbs [209.11 g]

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 Antenna, 26.5 GHz to 40 GHz Frequency Range, 15 dBi Gain, UG-599/U Flange, Integrated Cage-Style Mount PE1WAN028-15](#)



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Waveguide Interface

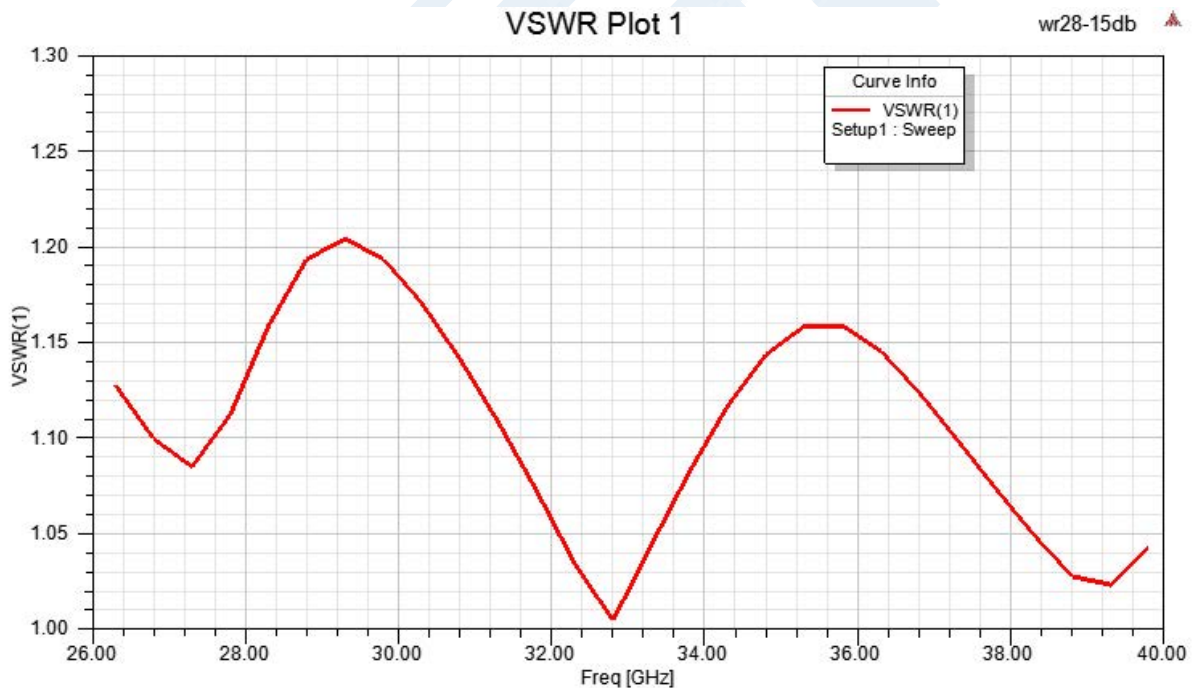
Waveguide Size
Flange Type
Flange Designation
Body Material and Plating

WR-28
Square Cover
UG-599/U
Aluminum, Gray

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

Plotted and Other Data

Typical Performance Data



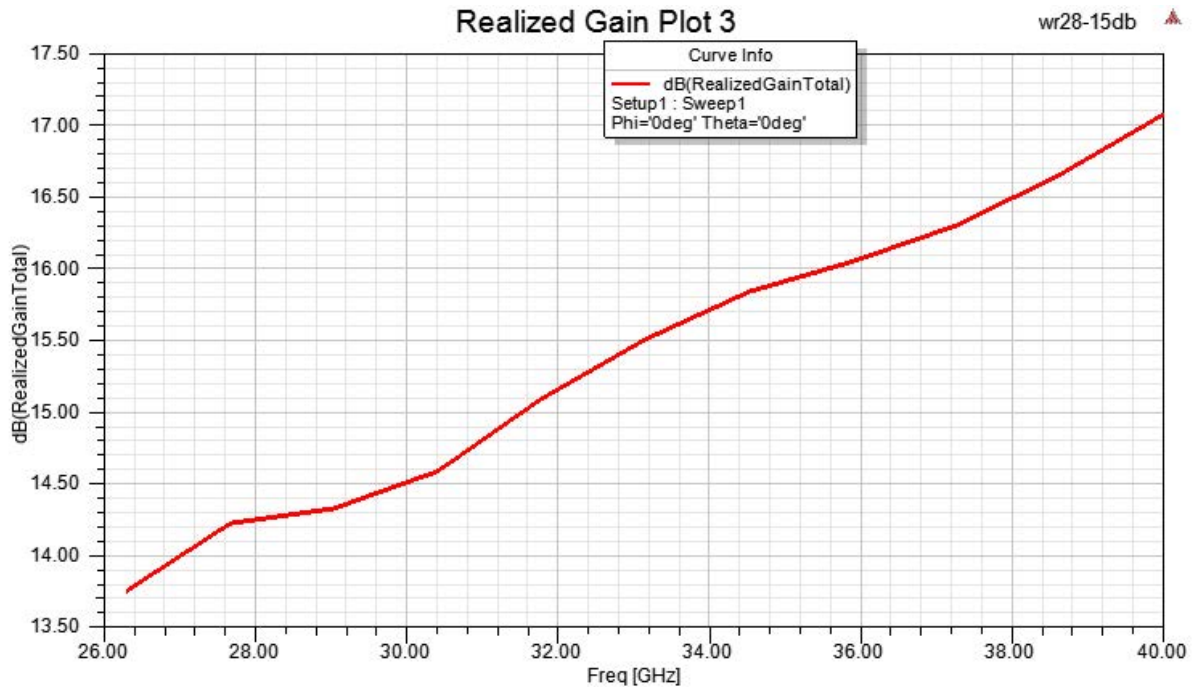
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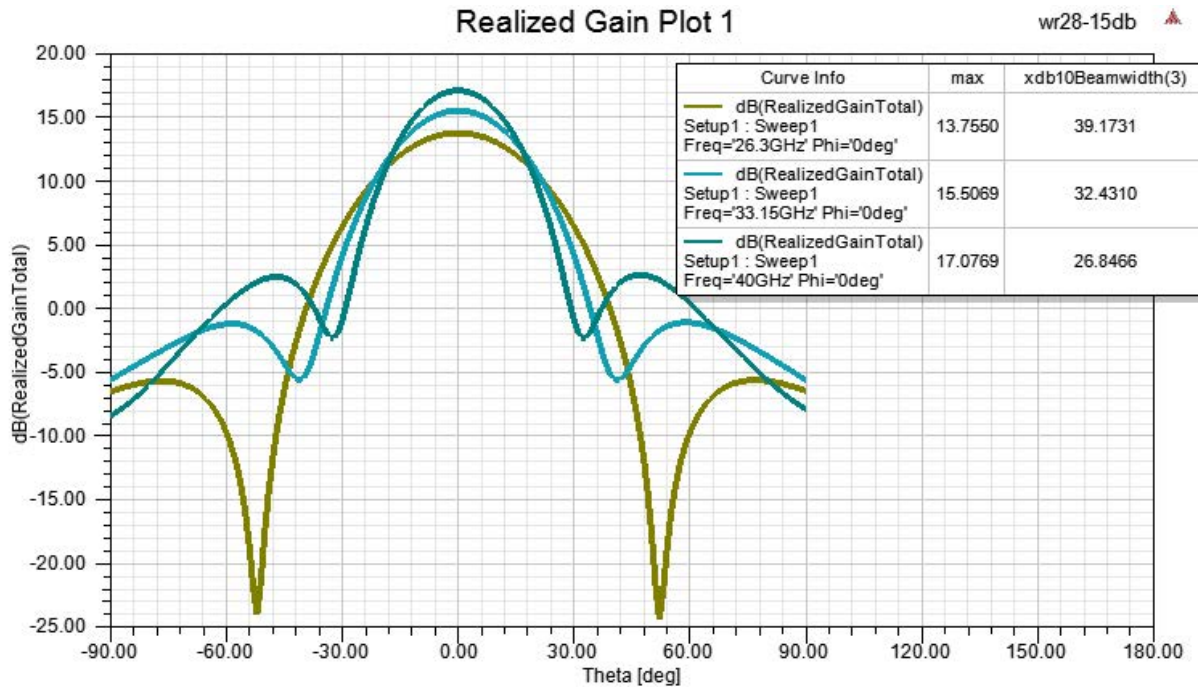
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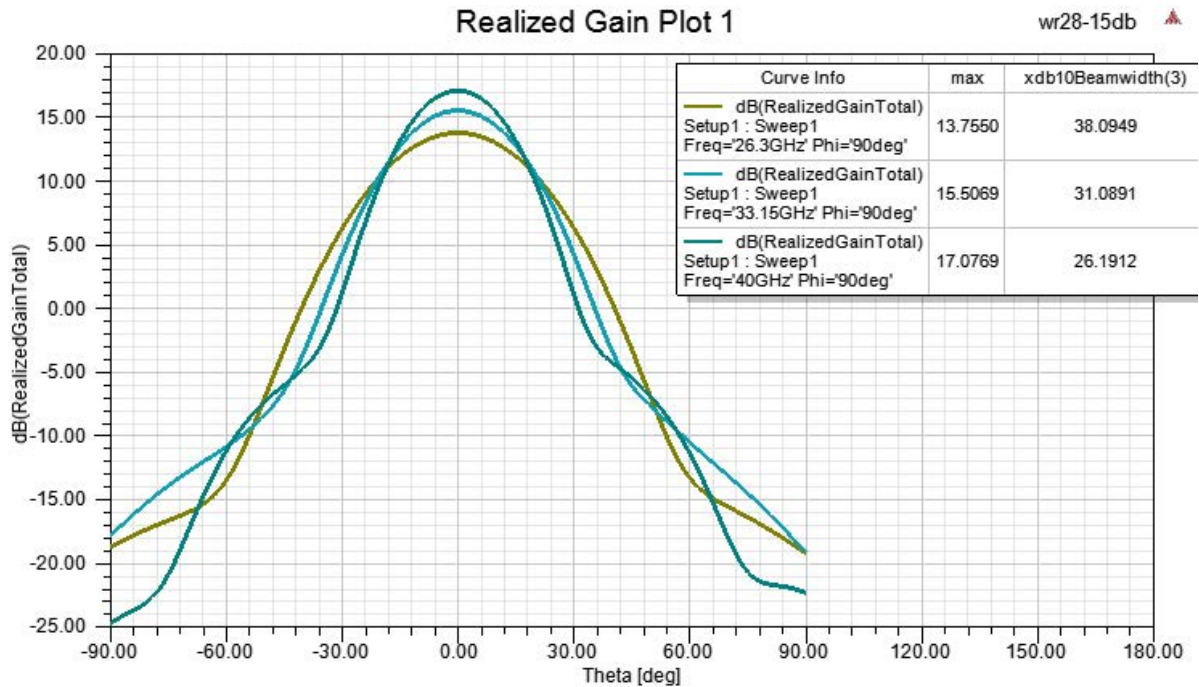
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WR-28 Waveguide Antenna, 26.5 GHz to 40 GHz Frequency Range, 15 dBi Gain, UG-599/U Flange, Integrated Cage-Style Mount from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

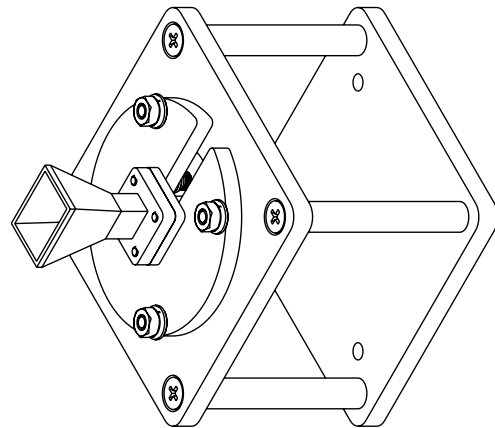
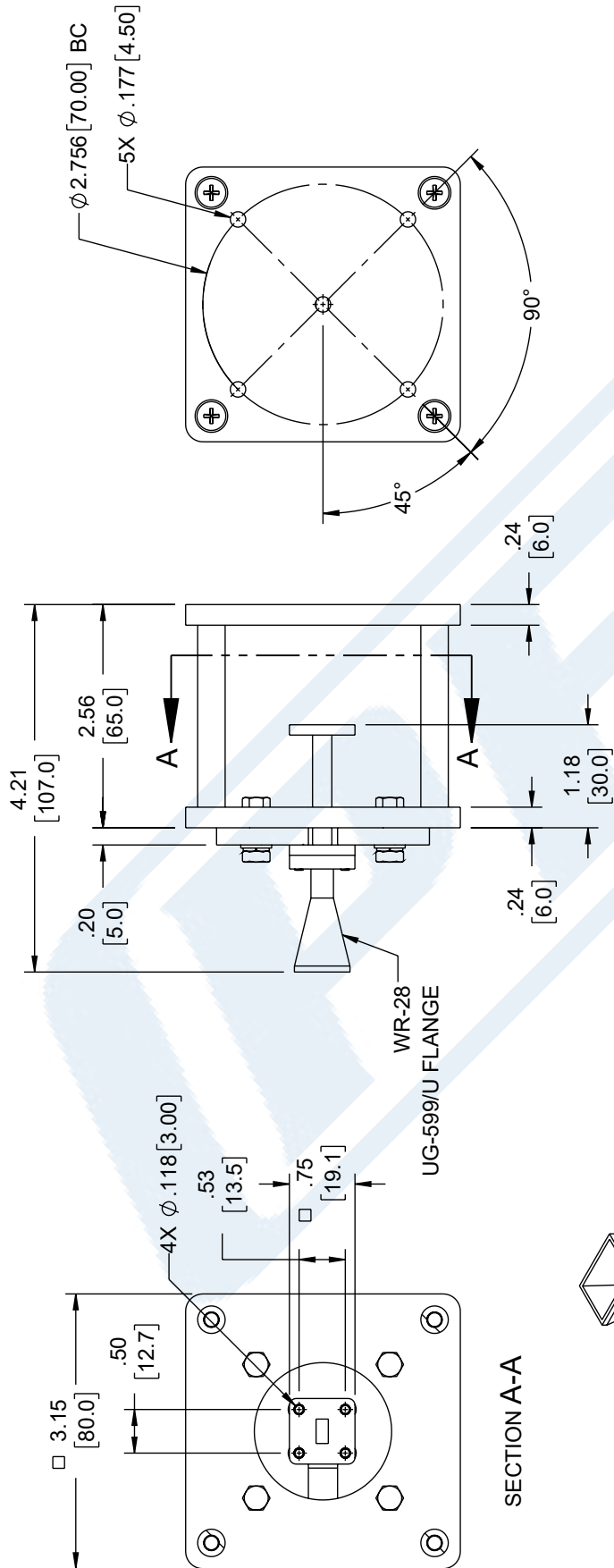
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-28 Waveguide Antenna, 26.5 GHz to 40 GHz Frequency Range, 15 dBi Gain, UG-599/U Flange, Integrated Cage-Style Mount PE1WAN028-15](https://www.pasternack.com/wr-28-waveguide-antenna-26.5-ghz-to-40-ghz-frequency-range-15-dbi-gain-ug-599-u-flange-integrated-cage-style-mount-pe1wan028-15-p.aspx)

URL: <https://www.pasternack.com/wr-28-waveguide-antenna-26.5-ghz-to-40-ghz-frequency-range-15-dbi-gain-ug-599-u-flange-integrated-cage-style-mount-pe1wan028-15-p.aspx>

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PE1WAN028-15 CAD Drawing

WR-28 Waveguide Antenna, 26.5 GHz to 40 GHz Frequency Range,
15 dBi Gain, UG-599/U Flange, Integrated Cage-Style Mount



SECTION A-A

PE PASTERNAK an INFINITI® brand		
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	SCALE NONE	SHEET 1 OF 1
DESCRIPTION WR-28 WAVEGUIDE ANTENNA, 26.5 GHZ TO 40 GHZ FREQUENCY RANGE, 15 DBI GAIN, UG-599/U FLANGE WITH PRE-INSTALLED CAGE-STYLE MOUNT		
SIZE A	CAGE CODE 53919	DRAWN BY HBAKKE
ITEM NO. PE1WAN028-15	REV A	

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS	TOLERANCES: .X = ±.2 [5] XX = ±.02 [0.5] XXX = ±.005 [0.13]	FRACTIONS ± 1/32 ANGLES ± 1°
CABLE LENGTH TOLERANCES: ≤ 12 [305] = ±.125 [-.00] >12 [305] ≤ 120 [3048] = ±.125 [-.00] >120 [3048] ≤ 300 [7620] = ±.125 [-.00] >300 [7620] = ±.125 [-.00]	ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION COLORS MAY VARY	

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