

WR-28 Standard Gain Horn with 10 dBi gain, 2.92mm Male connector, Integrated Cage-Style Mount

Technical Data Sheet

PE1WAN028-10KM

Features

- 26.5 GHz to 40 GHz
- WR-28 Waveguide Band
- 10 dBi Nominal Gain
- 2.92mm Male Connector
- Ruggedized Aluminum Cage-Style Mount
- Integrates with Positioning Systems

Applications

- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems
- Radome Testing
- Automotive Antenna Test
- Solutions
- Radar Cross Section
- Satellite Antenna Testing

Description

The PE1WAN028-10KM standard gain horn antenna with integrated cage-style mount (also known as waveguide horn) from Pasternack is part of our comprehensive selection of waveguide antennas. The cage-style mount is a ruggedized aluminum mounting solution that integrates with test and measurement positioning systems, ensuring precise alignment and protection of the antenna. This standard gain horn is mated with a WR-28 to 2.92mm Male waveguide to coaxial adapter and operates from 26.5 GHz to 40 GHz.

Our PE1WAN028-10KM standard gain horn antenna with integrated cage-style mount has a nominal gain of 10 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 52.1 dB and 51.6 dB respectively. Pasternack's 2.92mm Male to WR-28 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the PE1WAN028-10KM are used in a wide variety of applications due to the high-power handling capability, low loss, high directivity, and near constant electrical performance. Our WR-28 waveguide antennas with 2.92mm Male interface is part of over 40,000 RF, microwave and millimeter wave components from Pasternack available worldwide and Ship same day.

Configuration

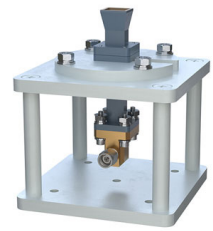
Design
Coaxial Interface

WR-28 Standard Gain Horn
2.92mm Male

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	26.5		40	GHz
Waveguide Standard Gain Horn				
Gain		10		dBi
Horizontal Half Power Beam Width		52.1		Degrees
Vertical Half Power Beam Width		51.6		Degrees
Waveguide to Coaxial Adapter				
Input VSWR			1.29:1	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-28 Standard Gain Horn with 10 dBi gain, 2.92mm Male connector, Integrated Cage-Style Mount PE1WAN028-10KM](#)



WR-28 Standard Gain Horn with 10 dBi gain, 2.92mm
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Mechanical Specifications

Size

Length	3.15 in [80.01 mm]
Width	3.15 in [80.01 mm]
Height	3.72 in [94.49 mm]
Weight	0.482 lbs [218.63 g]

RF Connector

Type	2.92mm Male
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Waveguide Interface

Waveguide Size	WR-28
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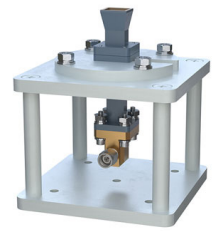
Environmental Specifications

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

Plotted and Other Data

Notes:

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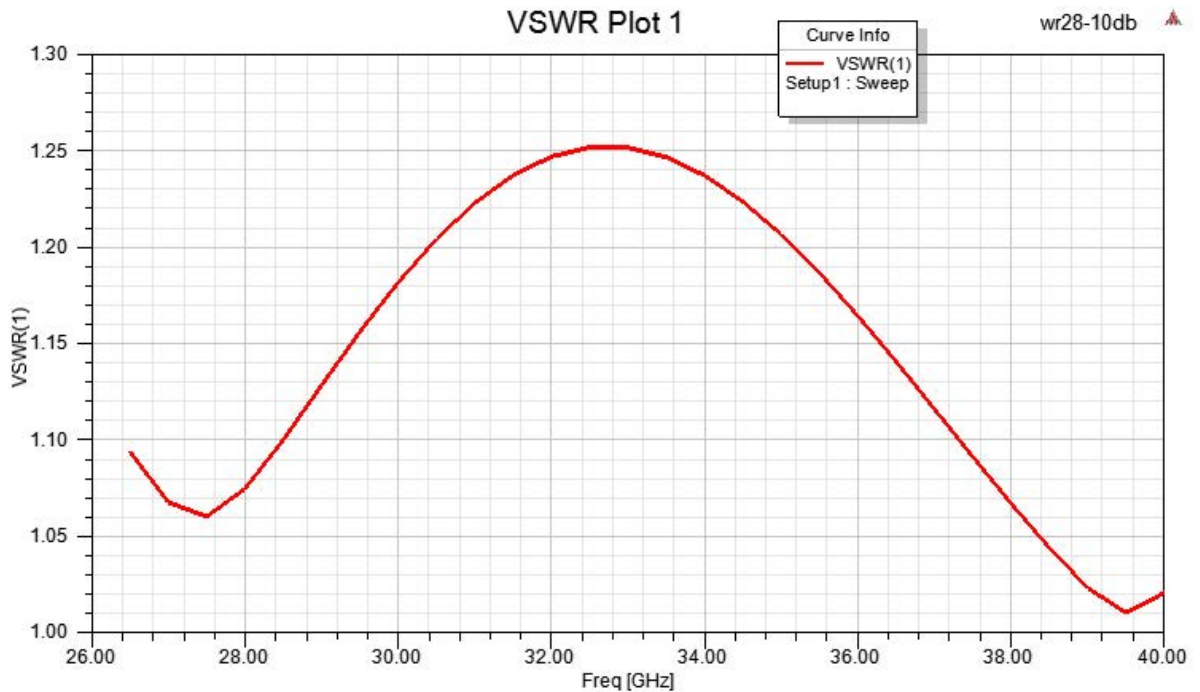


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Male connector, Integrated Cage-Style Mount

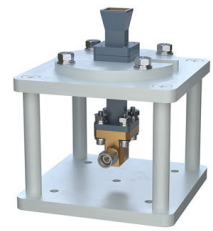
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Typical Performance Data



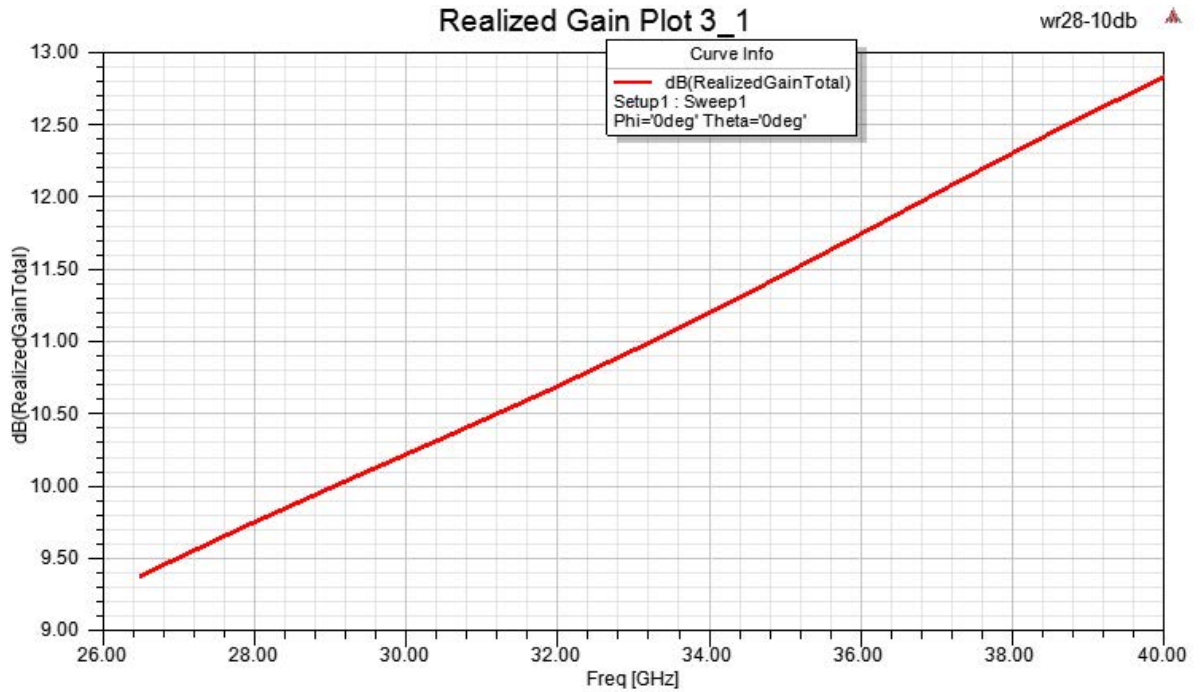
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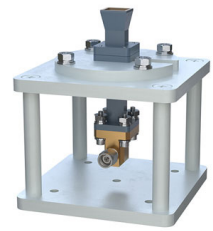
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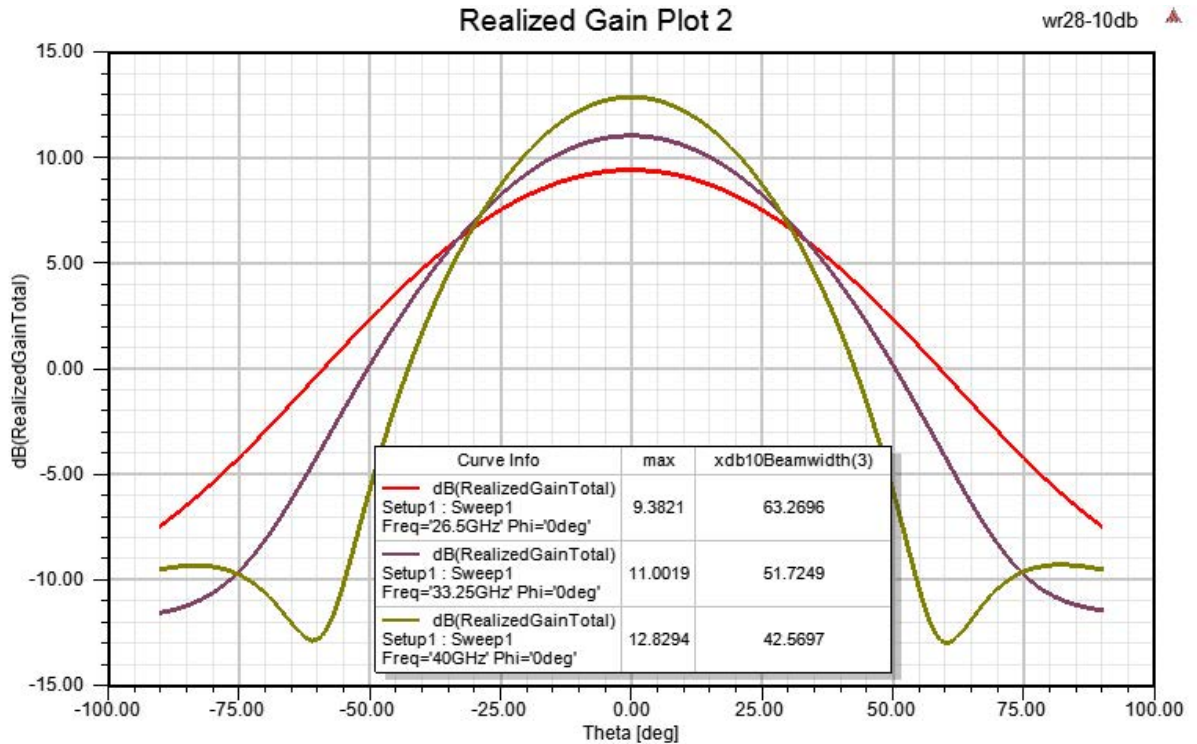
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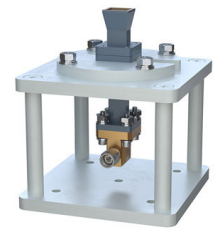
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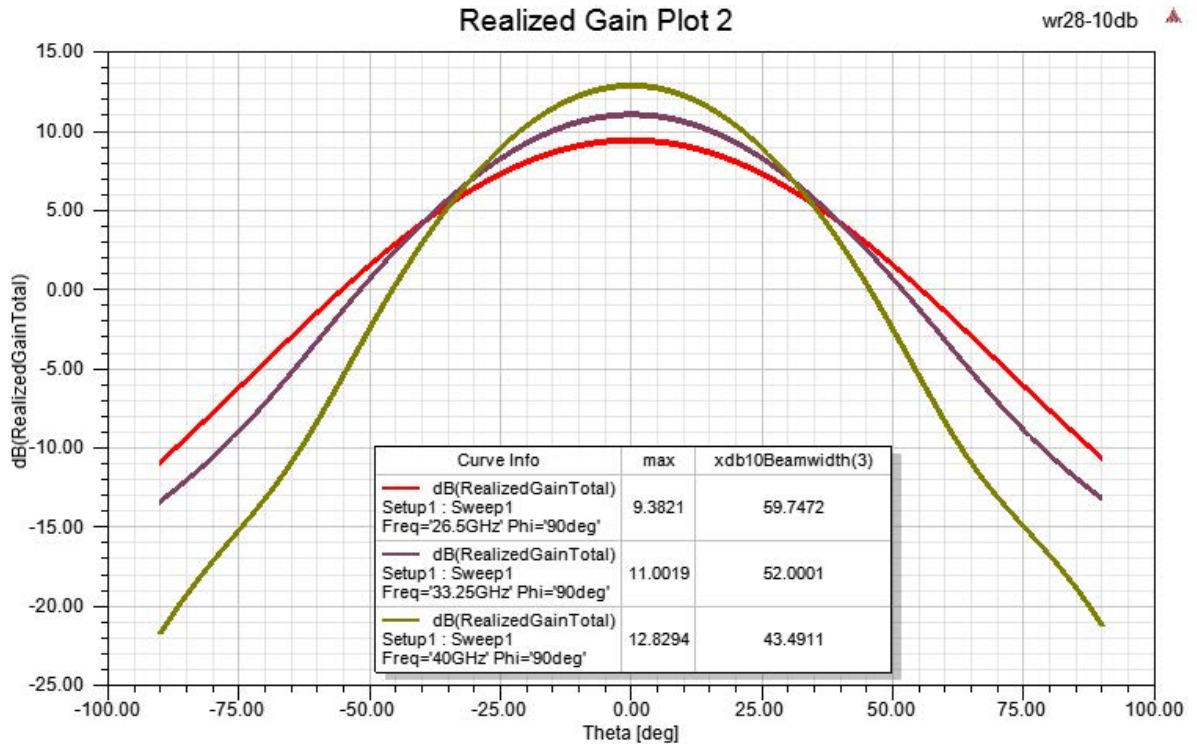
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WR-28 Standard Gain Horn with 10 dBi gain, 2.92mm Male connector, Integrated Cage-Style Mount from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability 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 Standard Gain Horn with 10 dBi gain, 2.92mm Male connector, Integrated Cage-Style Mount PE1WAN028-10KM](https://www.pasternack.com/wr-28-standard-gain-horn-with-10-dbi-gain-2.92mm-male-connector-integrated-cage-style-mount-pe1wan028-10km-p.aspx)

URL: <https://www.pasternack.com/wr-28-standard-gain-horn-with-10-dbi-gain-2.92mm-male-connector-integrated-cage-style-mount-pe1wan028-10km-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.

PE1WAN028-10KM CAD Drawing

WR-28 Standard Gain Horn with 10 dBi gain, 2.92mm

Male connector, Integrated Cage-Style Mount

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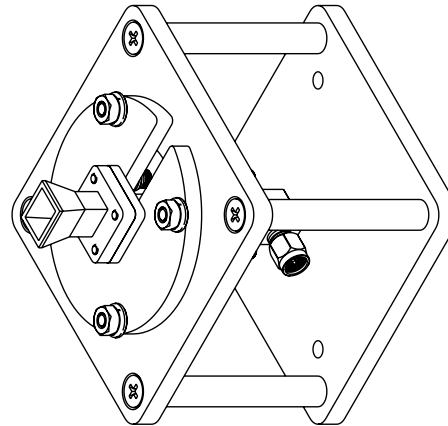
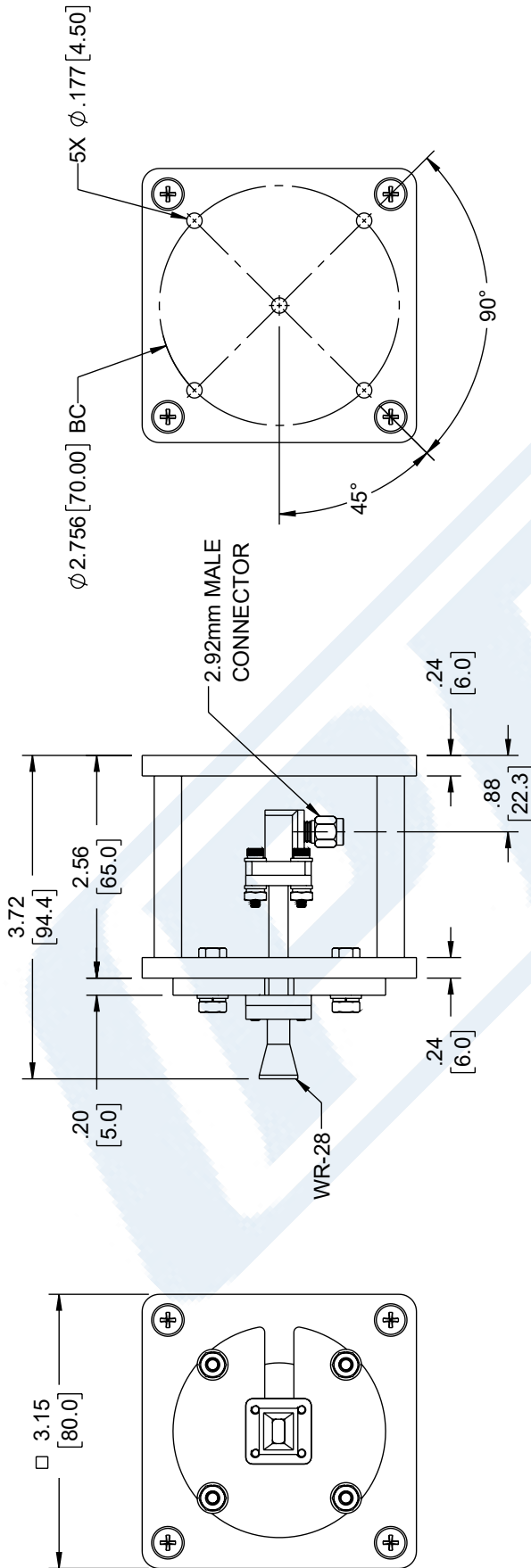
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REVISION			
ZONE	REV	DESCRIPTION	DATE
	A	INITIAL RELEASE	10/19/2023
		CHANGED BY	HBAKKE
		APPROVED	KHIETPAS



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UNLESS OTHERWISE SPECIFIED, LEADING 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 [3.18] ≤ 120 [3048] = ±.125 [3.18] ≤ 300 [7620] = ±.125 [3.18] ≤ 60 [1524] = ±.125 [3.18] ≤ 120 [3048] = ±.125 [3.18] ≤ 300 [7620] = ±.125 [3.18] ≤ 60 [1524] = ±.125 [3.18] ≤ 120 [3048] = ±.125 [3.18] ≤ 300 [7620] = ±.125 [3.18]		SCALE NONE		SHEET 1 OF 1	
DESCRIPTION WR-28 STANDARD GAIN HORN WITH 10 DBI GAIN, 2.92MM MALE CONNECTOR WITH PRE-INSTALLED CAGE-STYLE MOUNT		CAGE CODE 53919		ITEM NO. PE1WAN028-10KM	
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE MILLIMETERS. UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE MILLIMETERS.		DRAWN BY HBAKKE		REV A	

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