

WR-28 Standard Gain Horn with 15 dBi gain, 2.92mm Female connector, Integrated Cage-Style Mount

Technical Data Sheet

PE1WAN028-15KF

Features

- 26.5 GHz to 40 GHz
- WR-28 Waveguide Band
- 15 dBi Nominal Gain

- 2.92mm Female 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 PE1WAN028-15KF 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 Female waveguide to coaxial adapter and operates from 26.5 GHz to 40 GHz.

Our PE1WAN028-15KF standard gain horn antenna with integrated cage-style mount has a nominal gain of 15 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 31 dB and 32 dB respectively. Pasternack's 2.92mm Female 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 PE1WAN028-15KF 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 Female 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 Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	26.5		40	GHz
Waveguide Standard Gain Horn				
Gain		15		dBi
Horizontal Half Power Beam Width		31		Degrees
Vertical Half Power Beam Width		32		Degrees
Waveguide to Coaxial Adapter				
Input VSWR			1.3:1	

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 15 dBi gain, 2.92mm Female connector, Integrated Cage-Style Mount PE1WAN028-15KF](#)



WR-28 Standard Gain Horn with 15 dBi gain, 2.92mm Female connector, Integrated Cage-Style Mount

Technical Data Sheet

PE1WAN028-15KF

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

0.789 lbs [357.88 g]

RF Connector

Type

2.92mm Female

Waveguide Interface

Waveguide Size

WR-28

Environmental Specifications

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

Plotted and Other Data

Notes:

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 15 dBi gain, 2.92mm Female connector, Integrated Cage-Style Mount PE1WAN028-15KF](#)

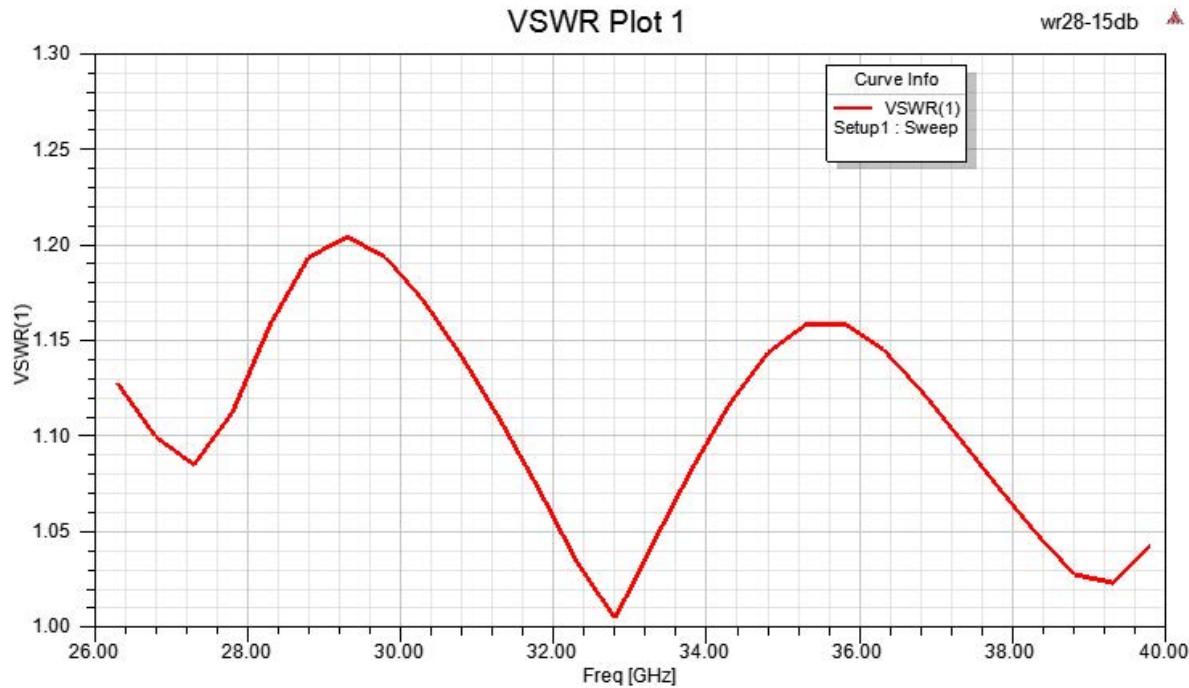


WR-28 Standard Gain Horn with 15 dBi gain, 2.92mm
Female connector, Integrated Cage-Style Mount

Technical Data Sheet

PE1WAN028-15KF

Typical Performance Data



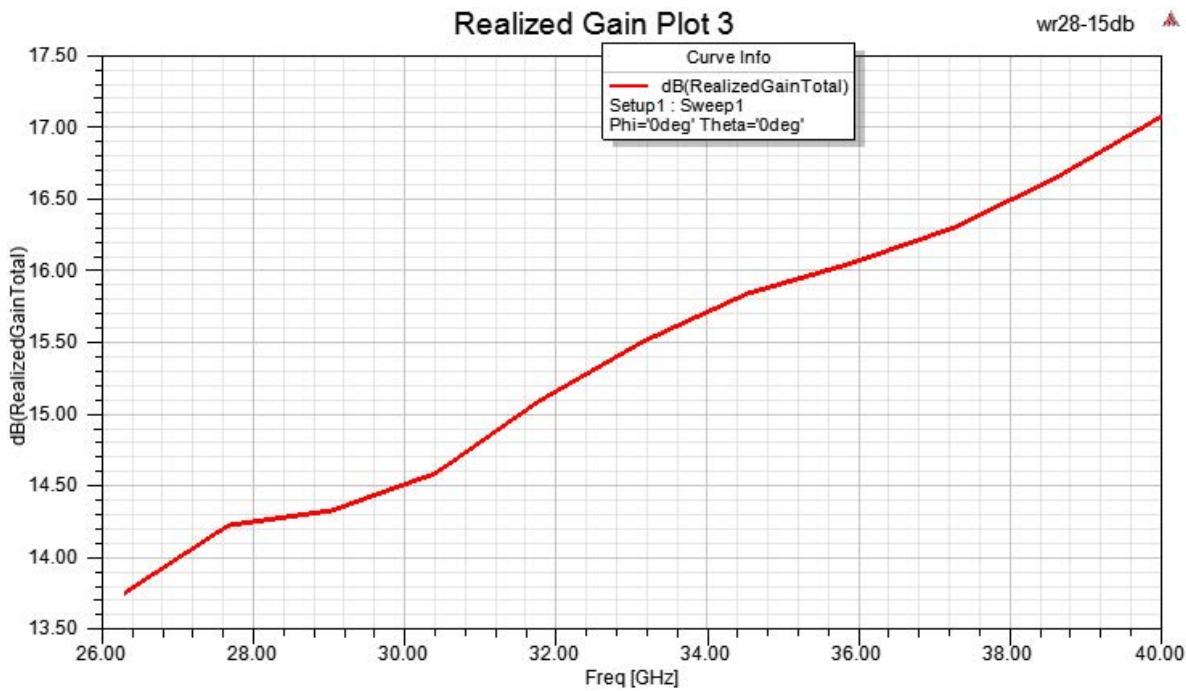
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-28 Standard Gain Horn with 15 dBi gain, 2.92mm Female connector, Integrated Cage-Style Mount PE1WAN028-15KF](#)



WR-28 Standard Gain Horn with 15 dBi gain, 2.92mm
Female connector, Integrated Cage-Style Mount

Technical Data Sheet

PE1WAN028-15KF



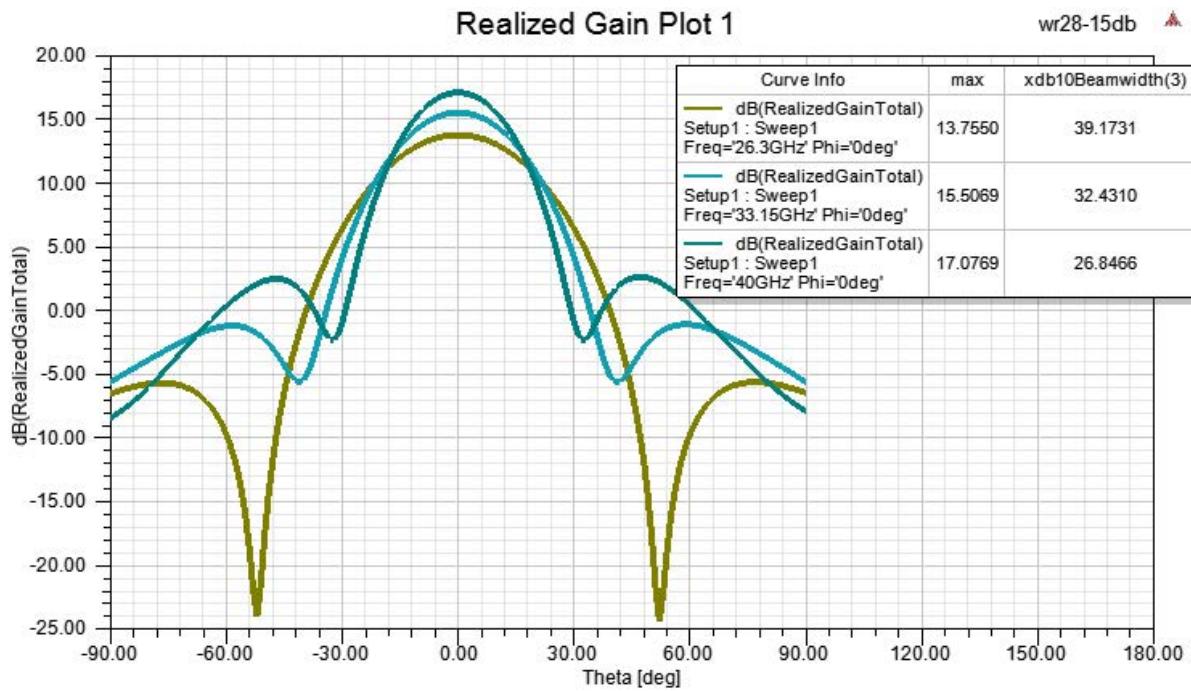
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-28 Standard Gain Horn with 15 dBi gain, 2.92mm Female connector, Integrated Cage-Style Mount PE1WAN028-15KF](#)



WR-28 Standard Gain Horn with 15 dBi gain, 2.92mm
Female connector, Integrated Cage-Style Mount

Technical Data Sheet

PE1WAN028-15KF



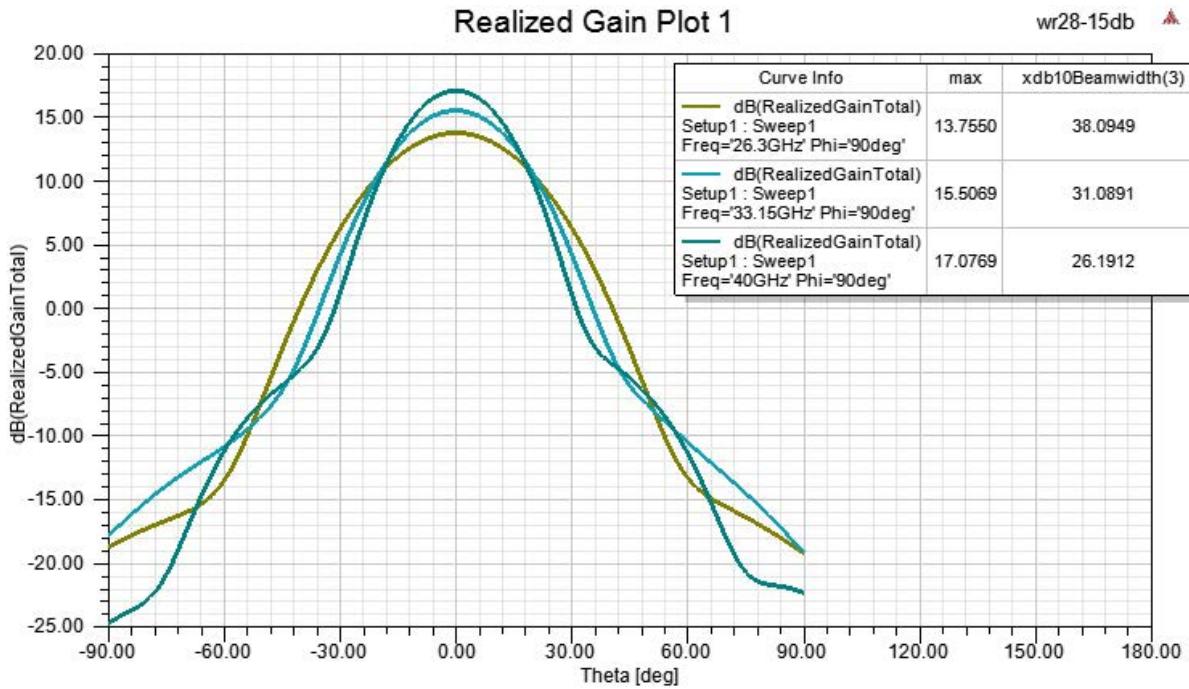
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-28 Standard Gain Horn with 15 dBi gain, 2.92mm Female connector, Integrated Cage-Style Mount PE1WAN028-15KF](#)



WR-28 Standard Gain Horn with 15 dBi gain, 2.92mm Female connector, Integrated Cage-Style Mount

Technical Data Sheet

PE1WAN028-15KF



WR-28 Standard Gain Horn with 15 dBi gain, 2.92mm Female 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 15 dBi gain, 2.92mm Female connector, Integrated Cage-Style Mount PE1WAN028-15KF](#)

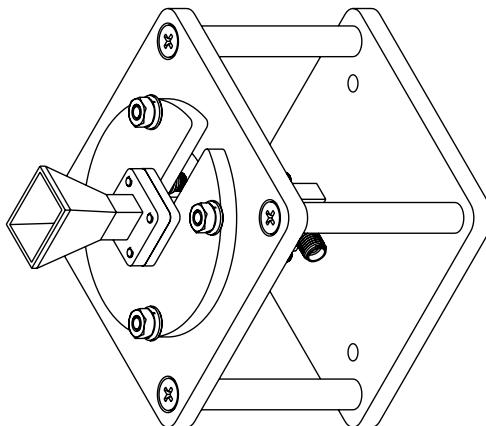
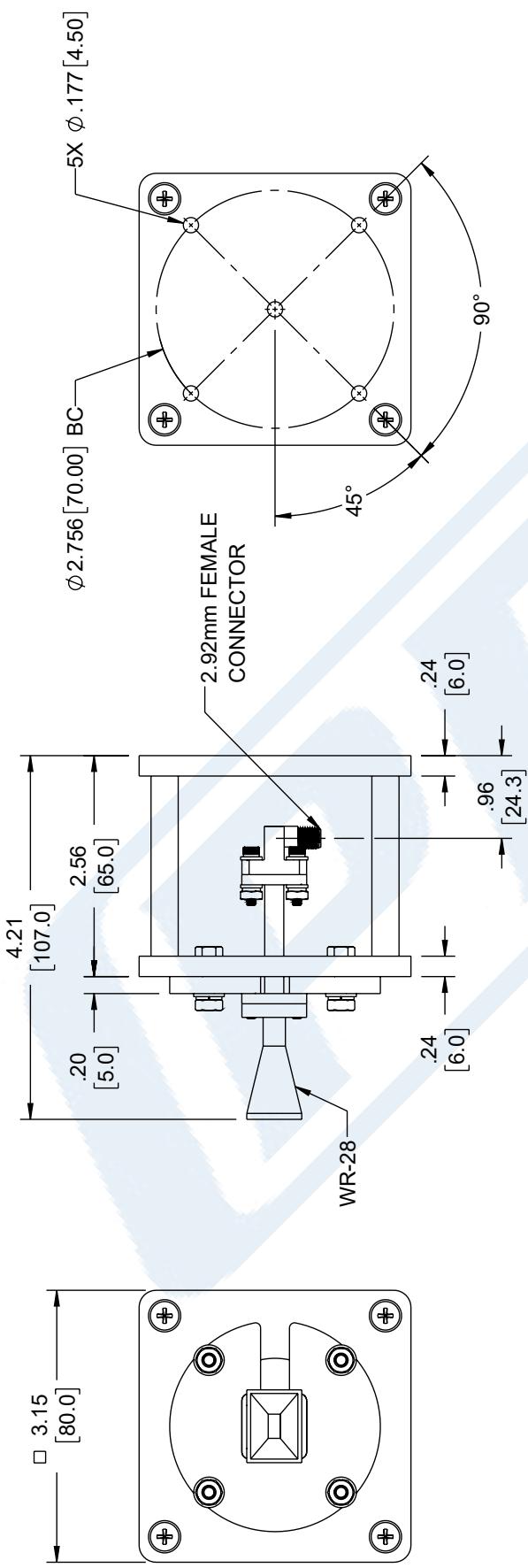
URL: <https://www.pasternack.com/wr-28-standard-gain-horn-with-15-dbi-gain-2.92mm-female-connector-integrated-cage-style-mount-pe1wan028-15kf-p.aspx>

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.

PE1WAN028-15KF CAD Drawing

WR-28 Standard Gain Horn with 15 dBi gain, 2.92mm

Female connector, Integrated Cage-Style Mount



REV		DESCRIPTION		DATE	CHANGED BY	APPROVED					
A	1	INITIAL RELEASE		10/19/2023	HBAKKE	KHETPAS					
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5											
SCALE NONE SHEET 1 OF 1											
PE PASTERNACK an INFINITE brand		WR-28 STANDARD GAIN HORN WITH 15 DBI GAIN, 2.92MM FEMALE CONNECTOR WITH PRE-INSTALLED CAGE-STYLE MOUNT									
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		ITEM NO. PE1WAN028-15KF									
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.											
TOLERANCES: X = ± 0.12 [3.05] FRACTIONS XX = ± 0.02 [0.5] ± 1/32 XXX = ± 0.005 [0.13] ANGLES ± 1°											
CABLE LENGTH TOLERANCES: S12 [305] = +1 [25] / -0 S12 [1524] = +2 [152] / -0 S12 [3048] = +4 [302] / -0 >60 [1524] = +2 [152] / -0 >30 [7620] = +3% / -0 >30 [7620] = +3% / -0 >120 [3048] = +3% / -0 >120 [3048] = +3% / -0											
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UN-DIMENSIONED FEATURES, MATERIALS, AND COLOURS MAY VARY. SIZE, DRAWN BY, AND LOCATION OF FEATURES MAY VARY.											
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED.											