

WR-284 Standard Gain Horn Antenna Operating From 2.6 GHz to 3.95 GHz, 10 dBi Nominal Gain, CMR-284 Flange

## Waveguide Antennas Technical Data Sheet

PEWAN284-10

### Features

- WR-284 Rectangular Waveguide Interface
- 2.6 GHz to 3.95 GHz
- 15 dBi Nominal Gain
- CMR-284 Cover Flange
- S Band

### Applications

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

### Description

The PEWAN284-10 S Band standard gain horn antenna (also known as waveguide horn) from Pasternack has a nominal gain of 10 dBi. This WR-284 standard gain horn has a CMR-284 type flange. The Pasternack 10 dBi WR-284 horn antenna operates from 2.6 GHz to 3.95 GHz. The WR-284 PEWAN284-10 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-284 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Our WR-284 standard gain horn antennas can ship worldwide the same day as it is purchased as with our other available RF parts.

### Configuration

Design	WR-284
Polarization	Linear

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2.6		3.95	GHz
Nominal Gain		10		dB
Horizontal Half Power Beam Width		52.1		Degrees
Vertical Half Power Beam Width		51.6		Degrees
VSWR		1.3:1		

### Mechanical Specifications

<b>Size</b>	
Length	5.118 in [130 mm]
Width	4.317 in [109.65 mm]
Height	3.465 in [88.01 mm]
Weight	0.65 lbs [294.84 g]

### Waveguide Interface

Waveguide Size	WR-284
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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-284 Standard Gain Horn Antenna Operating From 2.6 GHz to 3.95 GHz, 10 dBi Nominal Gain, CMR-284 Flange PEWAN284-10](#)



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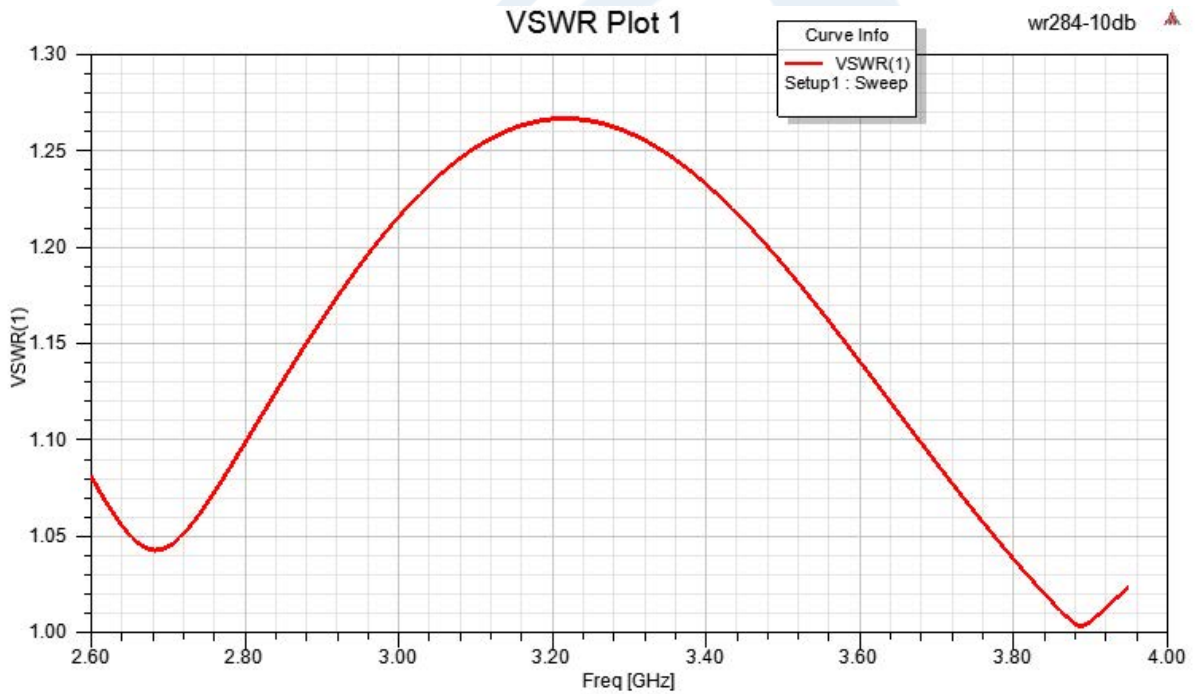
Flange Type  
Body Material and Plating

CMR-284  
Aluminum, Gray

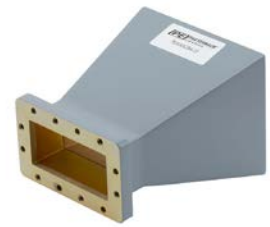
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

**Typical Performance Data**



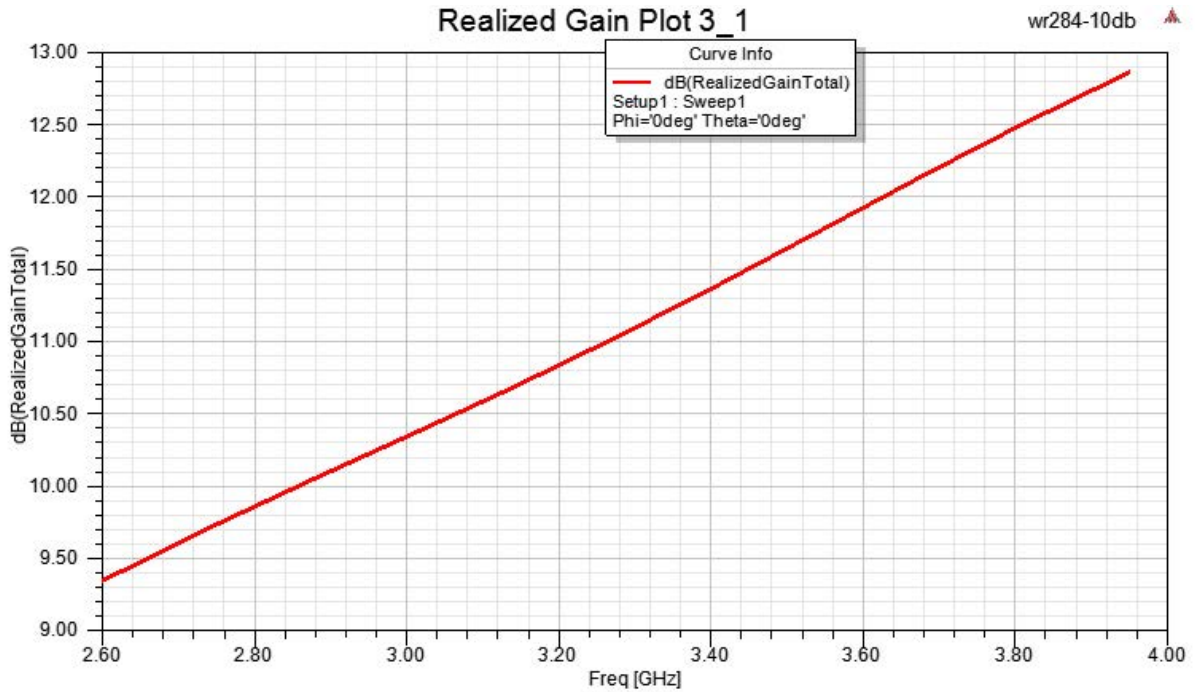
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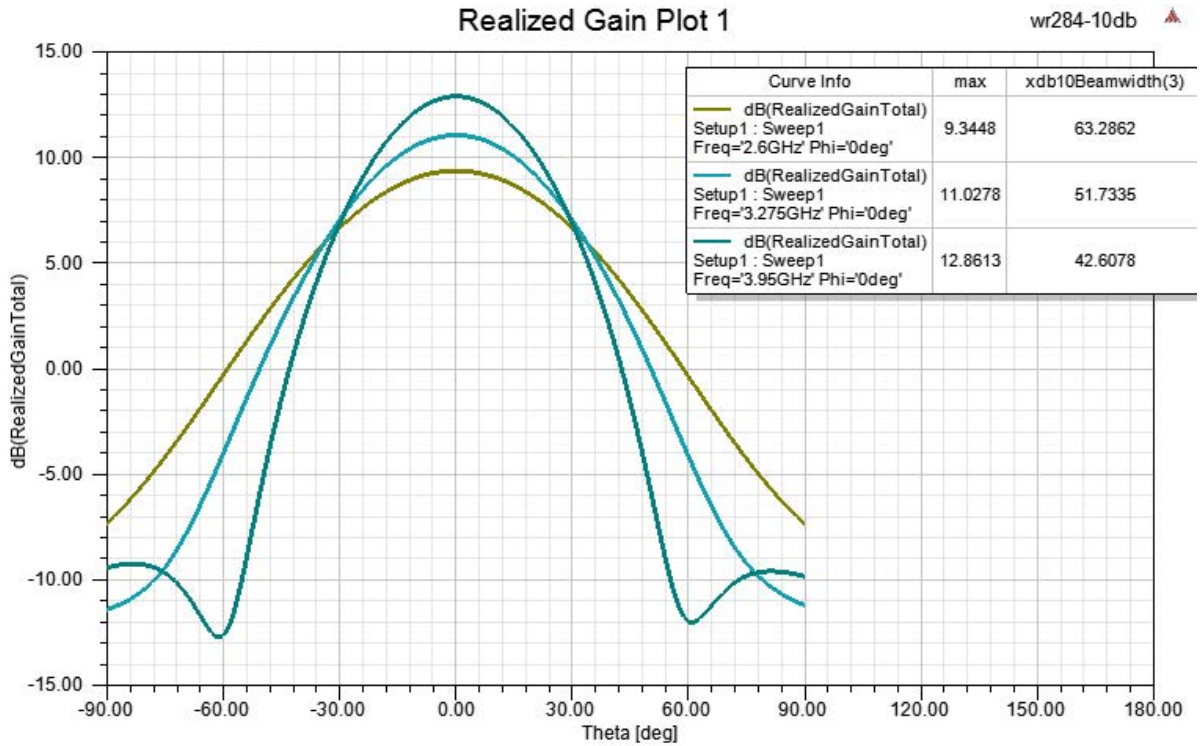
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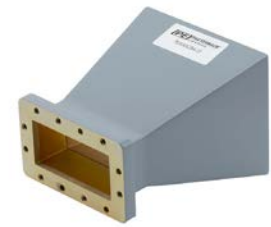
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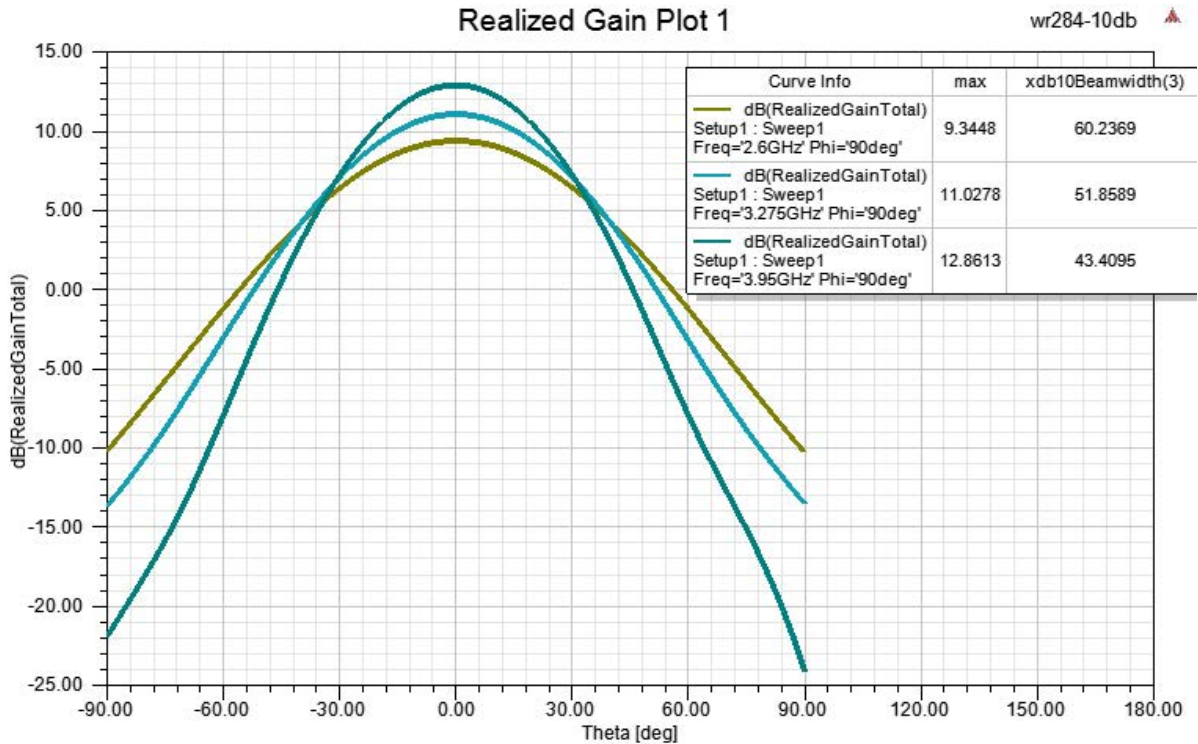
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WR-284 Standard Gain Horn Antenna Operating From 2.6 GHz to 3.95 GHz, 10 dBi Nominal Gain, CMR-284 Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain 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-284 Standard Gain Horn Antenna Operating From 2.6 GHz to 3.95 GHz, 10 dBi Nominal Gain, CMR-284 Flange PEWAN284-10](https://www.pasternack.com/wr-284-gain-horn-antenna-2-ghz-to-3-ghz-10-dbi-gain-cmr-284-pewan284-10-p.aspx)

URL: <https://www.pasternack.com/wr-284-gain-horn-antenna-2-ghz-to-3-ghz-10-dbi-gain-cmr-284-pewan284-10-p.aspx>

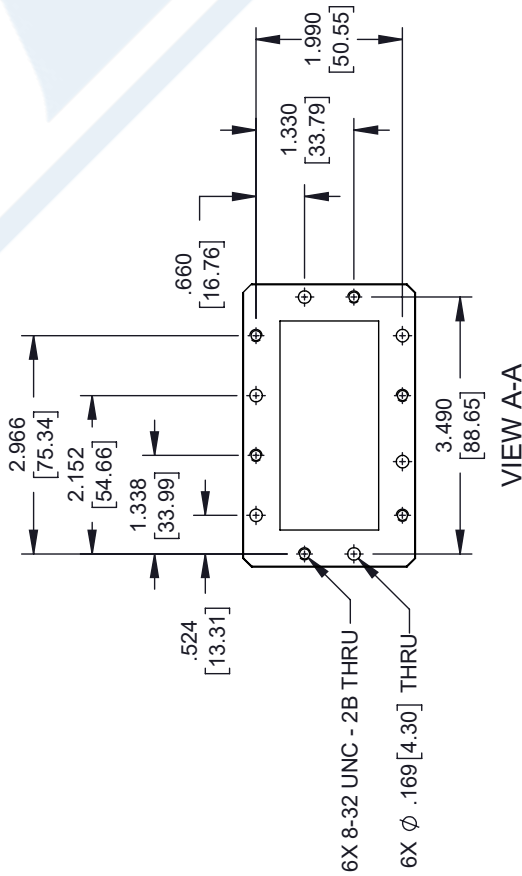
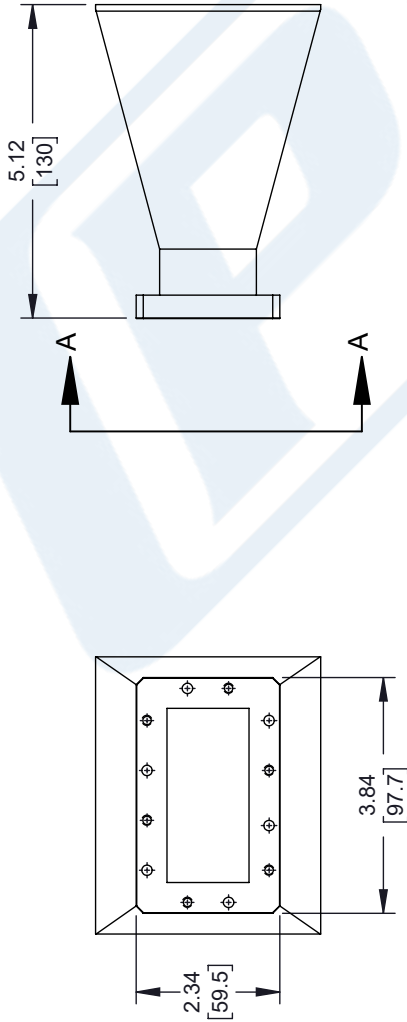
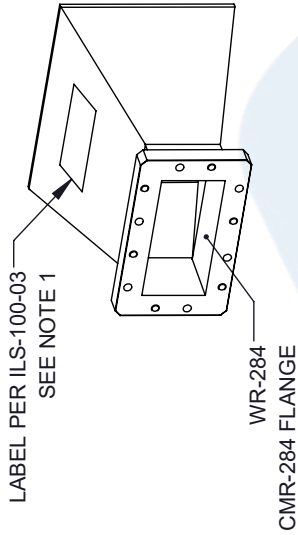
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# PEWAN284-10 CAD Drawing

WR-284 Standard Gain Horn Antenna Operating From 2.6 GHz to 3.95 GHz, 10 dBi Nominal Gain, CMR-284 Flange

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	06/03/2021	KHIETPAS



NOTES:  
 1. LABEL PER ILS-100-03 (FOR INTERNAL REFERENCE ONLY)  
 LABEL LOCATION FOR REFERENCE ONLY

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	SHEET 1 OF 1 SCALE N/A
SIZE A CAGE CODE 53919 DRAWN BY DZINN	ITEM NO. PEWAN284-10 REV. A

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:  
 .X = ±.2 [5.08] FRACTIONS ±1/32  
 .XX = ±.02 [.51] ANGLES ± 1°  
 .XXX = ±.005 [.13] CABLE LENGTH (L) TOLERANCES:  
 L ≤ 12 [305] = +1 [25] / -0  
 12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  
 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
 300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.