

Broadband Horn Antenna, Dual Polarized 6 GHz to 18 GHz 12 dBi Gain, SMA Female Connector

Specialty Waveguide Antennas Technical Data Sheet

PEWAN1172

Features

- Ultra Broadband 6 GHz to 18 GHz
- Quad-Ridge Waveguide
- Dual Polarized
- 12 dBi Nominal Gain
- Dual SMA Female Coaxial Connector
- Mounting Bracket Included
- Powder Coated Aluminum

Applications

- Antenna Measurements
- Laboratory Use
- Microwave Testing
- Radome Testing
- EMC measurement
- Satellite Antenna Testing
- Radar Cross Section

Description

The PEWAN1172 dual polarized broadband horn antenna (also known as a quad ridge horn antenna) from Pasternack is part of our comprehensive selection of broadband antennas. This quad-ridge waveguide horn features dual SMA Female coaxial connector and operates from 6 GHz to 18 GHz.

Our PEWAN1172 dual polarized broadband horn antenna has a nominal gain of 12 dBi with a typical input VSWR of 1.5:1. Pasternack's broadband horns are available with gain values from 6 to 21 dBi with varying frequency ranges to suit the application needs.

Quad ridge horn antennas, such as the PEWAN1172 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 broadband antennas are part of over 40,000 RF, microwave, and millimeter wave components from Pasternack available worldwide and ship same day.

Configuration

Pattern	Directional
Polarization	Dual Linear
Antenna Design Type	Broadband Gain Horn
RF Connector	SMA Female

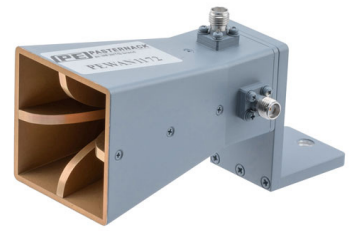
Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	6		18	GHz
Nominal Gain		12		dBi
VSWR		1.5:1		

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	6 to 8	8 to 10	10 to 13	13 to 15	15 to 18	GHz
Gain, Typ	9	9	11	13	14	dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Broadband Horn Antenna, Dual Polarized 6 GHz to 18 GHz 12 dBi Gain, SMA Female Connector PEWAN1172](#)



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Mechanical Specifications

Size

Length	1.69685 in [43.1 mm]
Width	1.69685 in [43.1 mm]
Height	3.129921 in [79.5 mm]
Weight	0.29 lbs [131.54 g]

Body Material and Plating
RF Connector

Aluminum
SMA Female

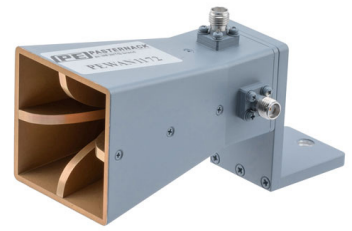
Environmental Specifications

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

Plotted and Other Data

Notes:

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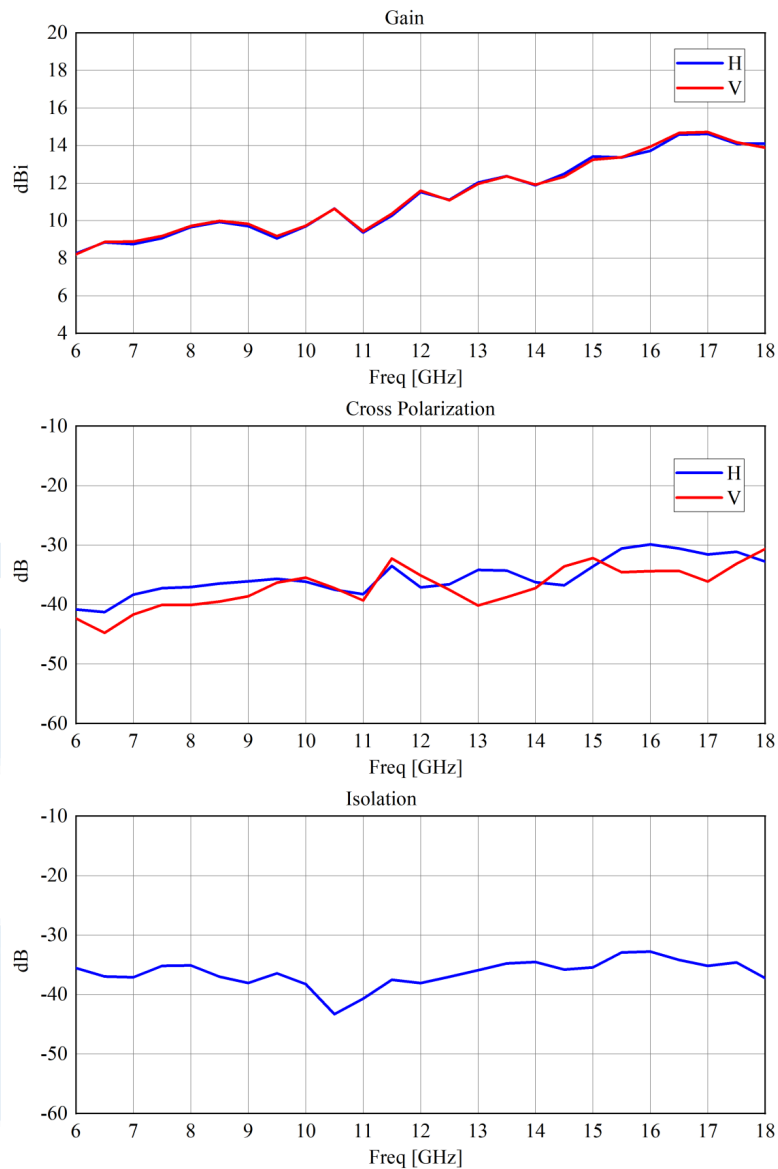


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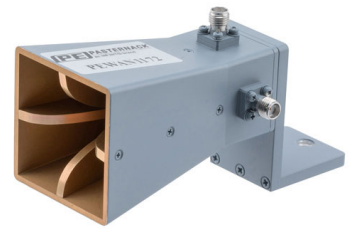
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Typical Performance Data



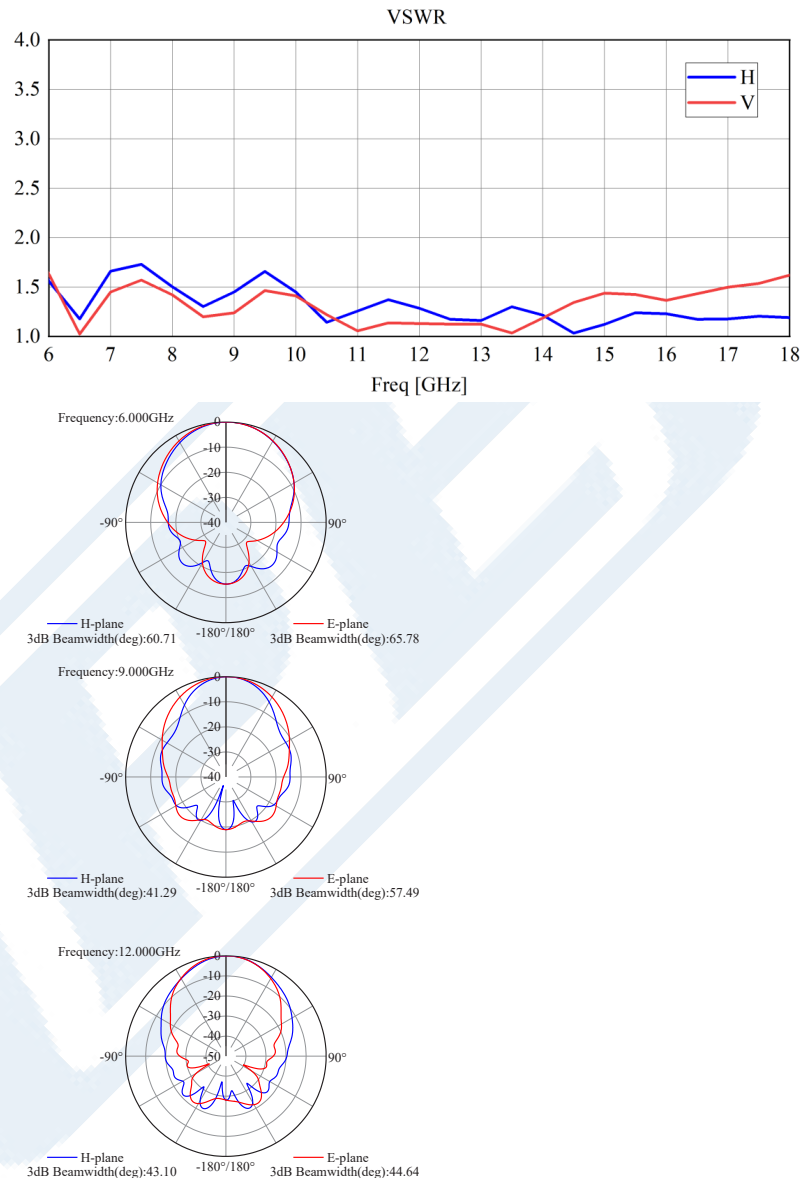
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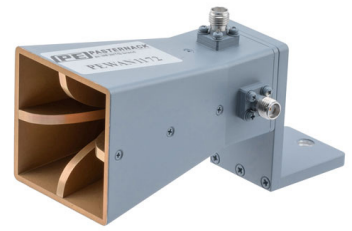
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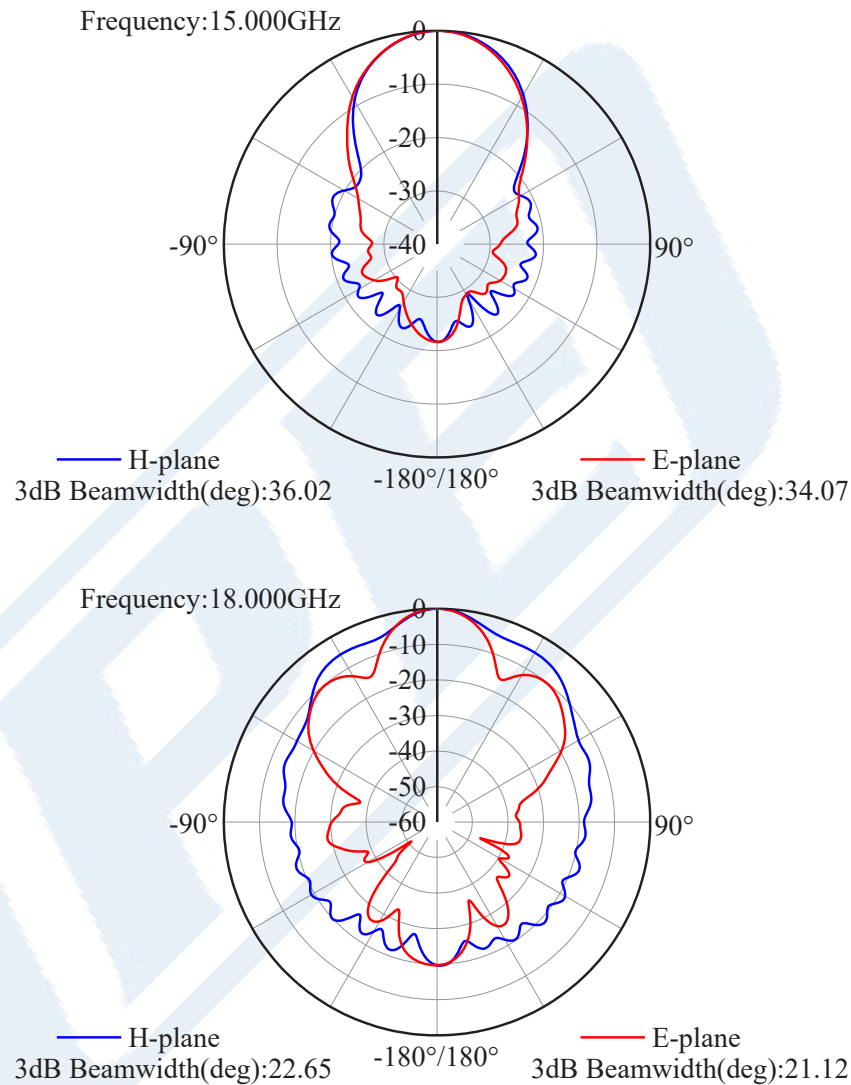
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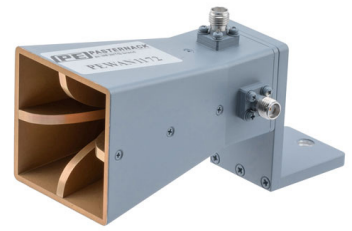
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Broadband Horn Antenna, Dual Polarized 6 GHz to 18 GHz 12 dBi Gain, SMA Female Connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability 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: [Broadband Horn Antenna, Dual Polarized 6 GHz to 18 GHz 12 dBi Gain, SMA Female Connector PEWAN1172](https://www.pasternack.com/waveguide-horn-antenna-18-ghz-12-dbi-sma-female-pewan1172-p.aspx)

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PEWAN1172 CAD Drawing

Broadband Horn Antenna, Dual Polarized 6 GHz to 18 GHz 12 dBi Gain, SMA Female Connector

F

E

D

C

B

A

F

E

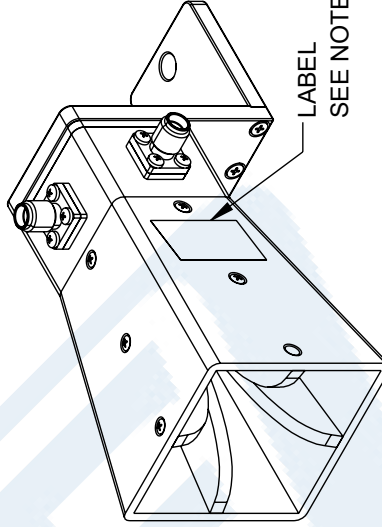
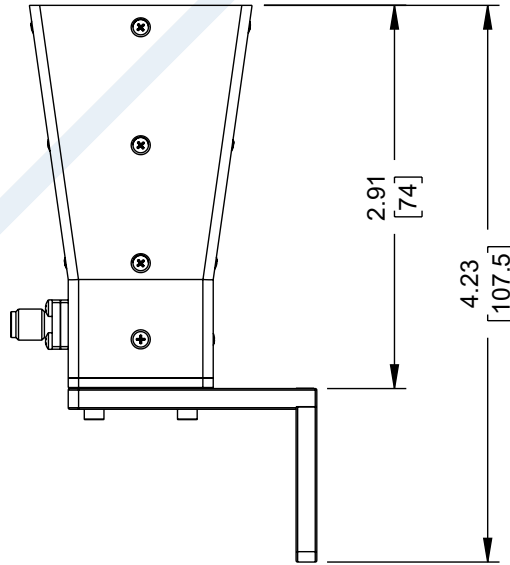
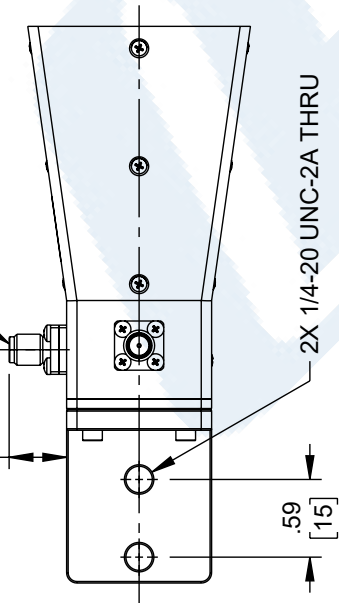
D

C

B

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2X .44
[11.1]



NOTES:

1. LABEL FOR REFERENCE ONLY.
LABEL LOCATION FOR REFERENCE ONLY.

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

TOLERANCES:
X = ±.2 [5] FRACTIONS
.XX = ±.02 [.5] ±.132
XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH TOLERANCES:
≤12 [305] = ±1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE

PE PASTERNAK
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Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION

BROADBAND HORN ANTENNA, DUAL POLARIZED 6 GHz TO 18 GHz 12 dBi GAIN, SMA FEMALE CONNECTORS

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE

SHEET 1 OF 1

SIZE A CAGE CODE A 53919 DRAWN BY KGLEBOVA ITEM NO. PEWAN1172

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