



Broadband Horn Antenna, Dual Polarized 23 GHz to 43 GHz 20 dBi Gain, 2.92mm Female Connector

Specialty Waveguide Antennas Technical Data Sheet

PEWAN1169

Features

- Ultra Broadband 23 GHz to 43 GHz
- Conical Quad-Ridge Waveguide
- Dual Polarized
- 20 dBi Nominal Gain
- Dual 2.92mm 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 PEWAN1169 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 conical quad-ridge waveguide horn features dual 2.92mm Female coaxial connector and operates from 23 GHz to 43 GHz.

Our PEWAN1169 dual polarized broadband horn antenna has a nominal gain of 20 dBi with a typical input VSWR of 1.3:1. 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 PEWAN1169 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	2.92mm Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	23		43	GHz
Nominal Gain		20		dBi
VSWR		1.3:1		

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	23 to 27	27 to 31	31 to 35	35 to 39	39 to 43	GHz
Gain, Typ	18.5	19	20	21	21.5	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 23 GHz to 43 GHz 20 dBi Gain, 2.92mm Female Connector PEWAN1169](#)



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Mechanical Specifications

Size

Length	2.362205 in [60 mm]
Width	2.362205 in [60 mm]
Height	7.795276 in [198 mm]
Weight	0.49 lbs [222.26 g]

Body Material and Plating
RF Connector

Aluminum
2.92mm Female

Environmental Specifications

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

Plotted and Other Data

Notes:

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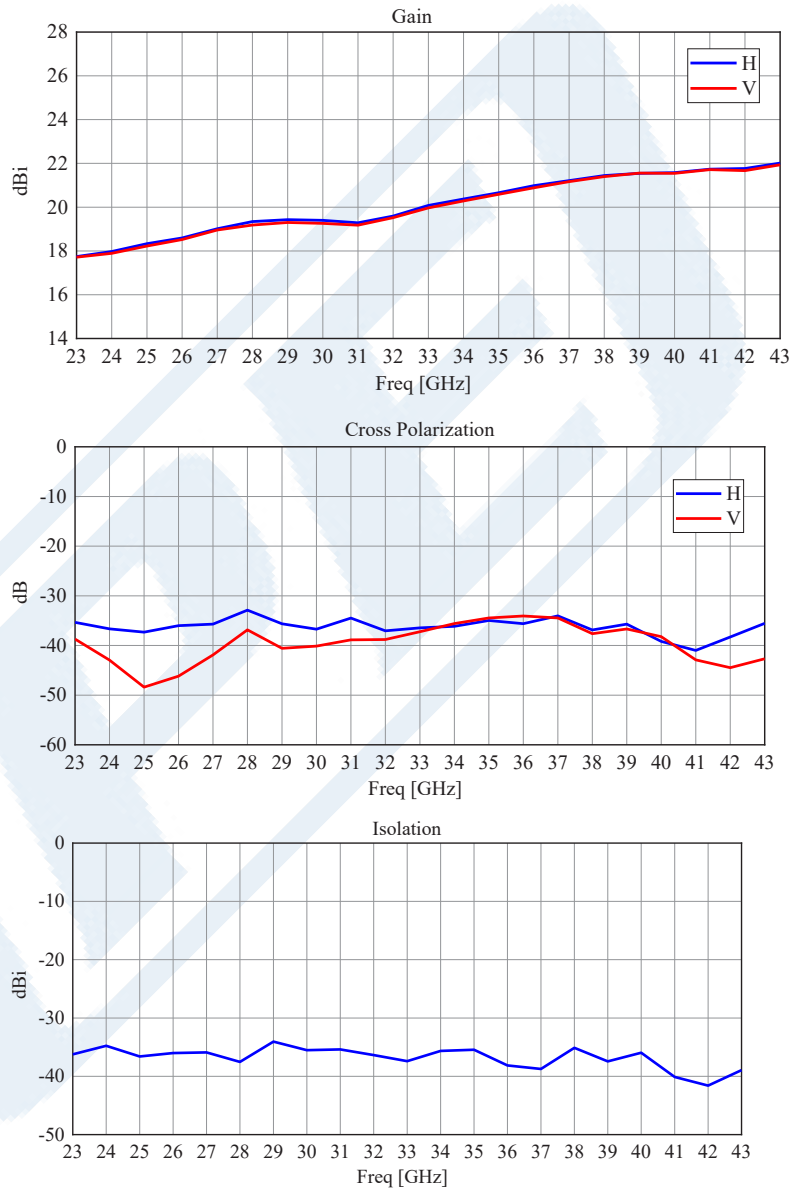


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Typical Performance Data



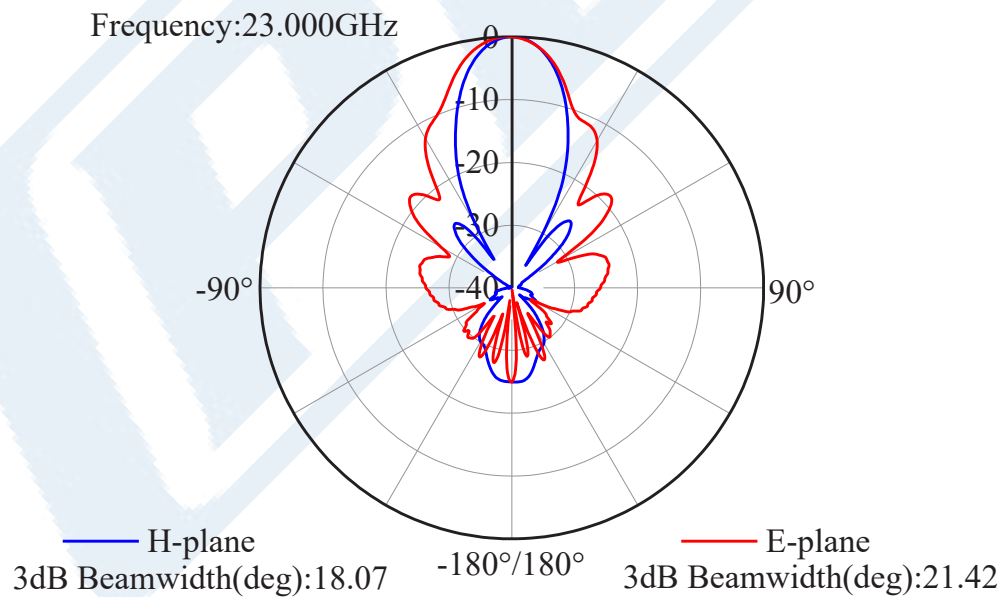
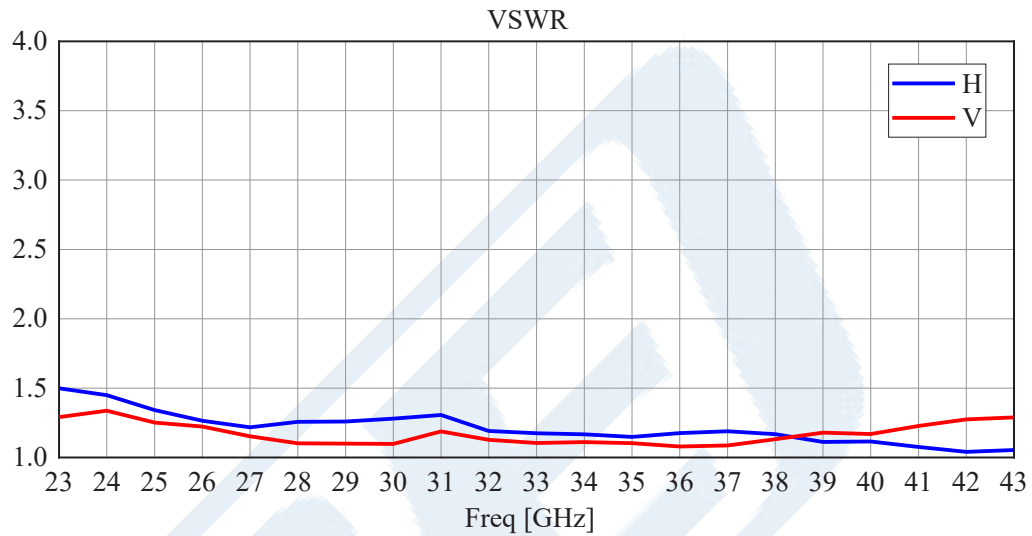
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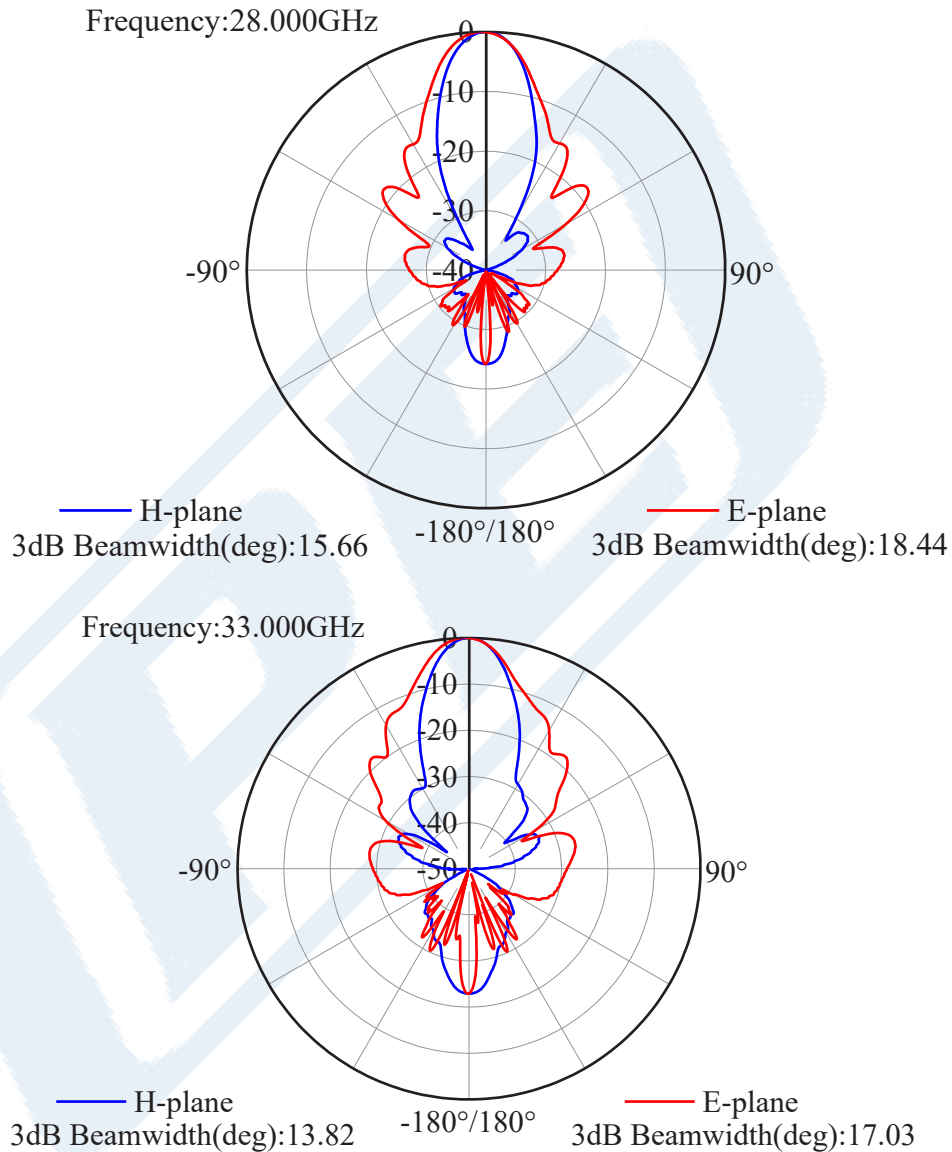
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Broadband Horn Antenna, Dual Polarized 23 GHz to 43 GHz 20 dBi Gain, 2.92mm Female Connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability 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 23 GHz to 43 GHz 20 dBi Gain, 2.92mm Female Connector PEWAN1169](https://www.pasternack.com/waveguide-horn-antenna-43-ghz-20-dbi-2.92mm-female-pewan1169-p.aspx)

URL: <https://www.pasternack.com/waveguide-horn-antenna-43-ghz-20-dbi-2.92mm-female-pewan1169-p.aspx>

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PEWAN1169 CAD Drawing

Broadband Horn Antenna, Dual Polarized 23 GHz to 43 GHz

20 dBi Gain, 2.92mm Female Connector

F

D

C

B

A

F

E

D

C

B

A

2X .31
[8.0]

6.86
[174.3]

Ø.79
[20]

4X 1/4-20 UNC-2A THRU

2X 2.92mm FEMALE
CONNECTOR

LABEL
SEE NOTE 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] ±.1/32
.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



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

DESCRIPTION

BROADBAND HORN ANTENNA, DUAL POLARIZED 23 GHz TO
43 GHz 20 dBi GAIN, 2.92mm 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. PEWAN1169 REV A