

Broadband Horn Antenna, Dual Polarized 18 GHz to 40 GHz 15 dBi Gain, 2.92mm Female Connector



PEWAN1167

Features

- Ultra Broadband 18 GHz to 40 GHz
- Quad-Ridge Waveguide
- Dual Polarized
- 15 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 PEWAN1167 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 2.92mm Female coaxial connector and operates from 18 GHz to 40 GHz.

Our PEWAN1167 dual polarized broadband horn antenna has a nominal gain of 15 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 PEWAN1167 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 |
| Antenna Type | Dual Linear |
| Band Type | Dual Linear |
| RF Connector | 2.92mm Female |

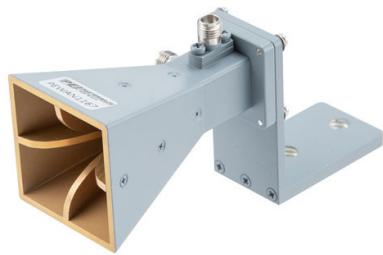
Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 18 | | 40 | GHz |
| Nominal Gain | | 15 | | dBi |
| Gain | | | | dBi |
| VSWR | | 1.5:1 | | |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------|----------|----------|----------|----------|----------|-------|
| Frequency Range | 18 to 22 | 22 to 26 | 26 to 30 | 30 to 35 | 25 to 40 | GHz |
| Gain, Typ | 13 | 14 | 14.5 | 15 | 15.5 | dB |

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Mechanical Specifications

Size

| | |
|---------------------------|---------------------|
| Length | 1.377953 in [35 mm] |
| Width | 1.377953 in [35 mm] |
| Height | 2.440945 in [62 mm] |
| Weight | 0.195 lbs [88.45 g] |
| Body Material and Plating | Aluminum |

Interface

| | |
|--------------|---------------|
| RF Connector | 2.92mm Female |
|--------------|---------------|

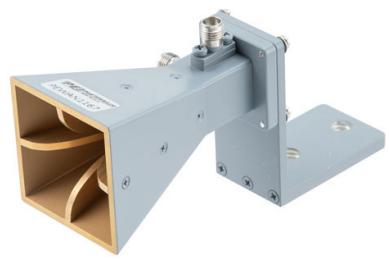
Environmental Specifications

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

Plotted and Other Data

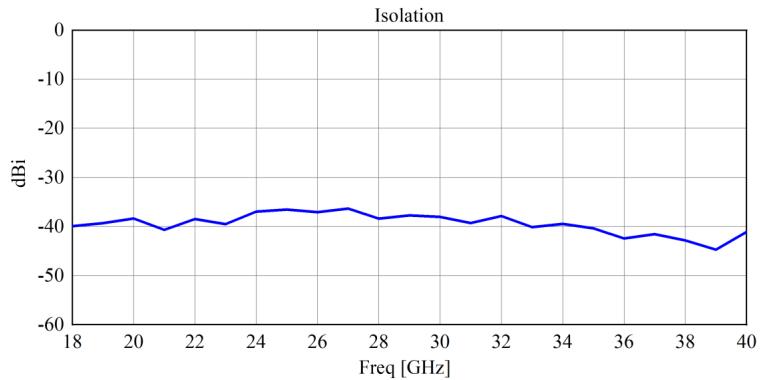
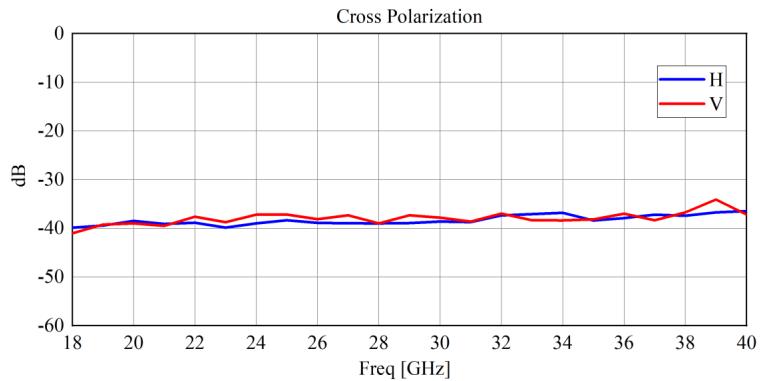
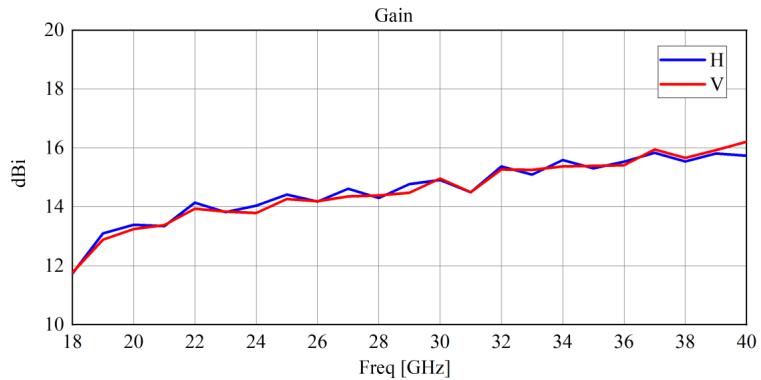
Notes:

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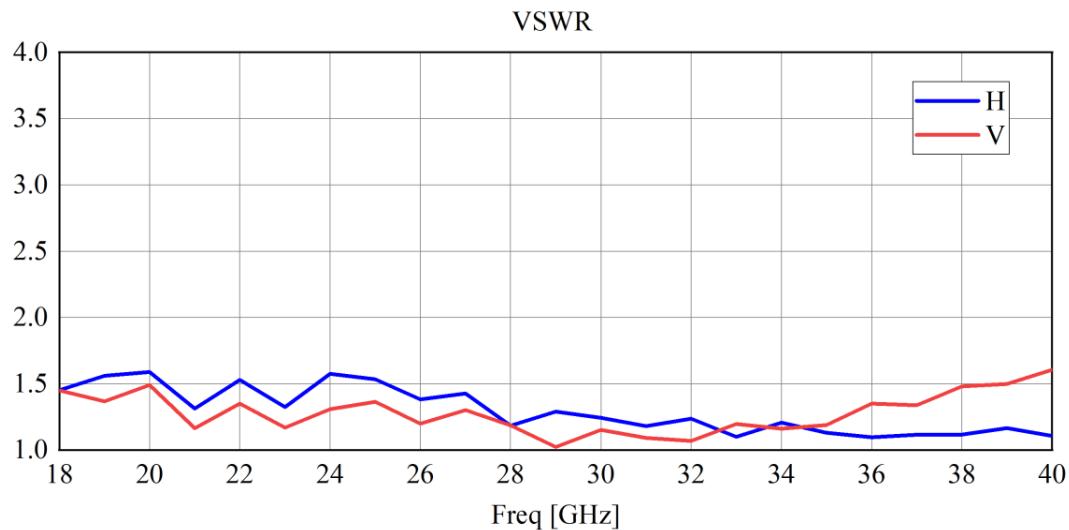
Typical Performance Data



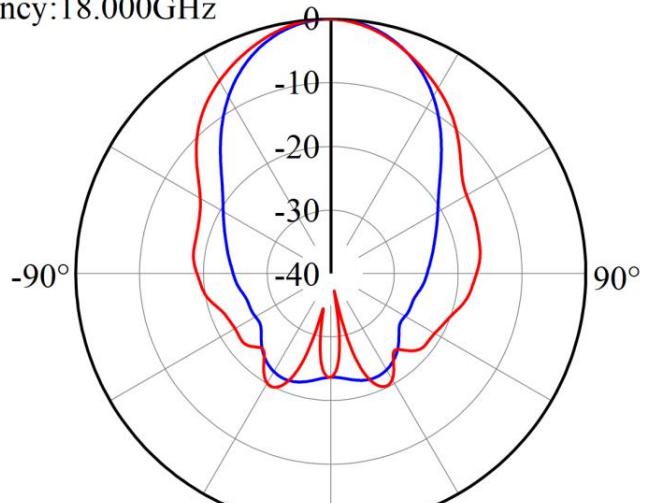
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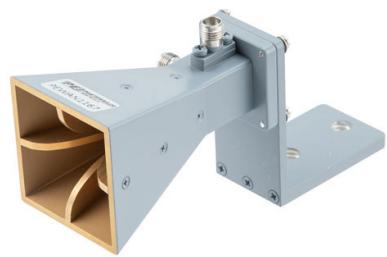


Frequency: 18.000GHz

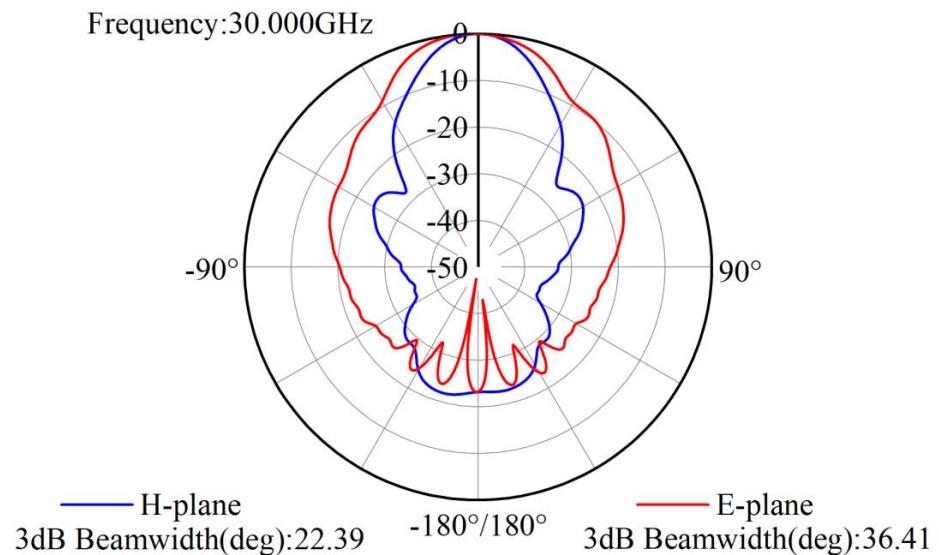
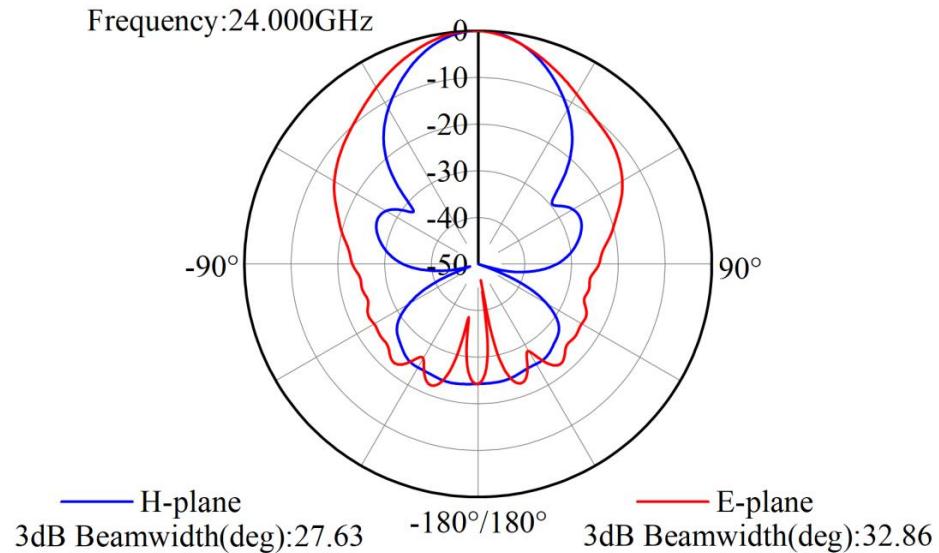


— H-plane
3dB Beamwidth(deg):36.38 — E-plane
3dB Beamwidth(deg):40.40

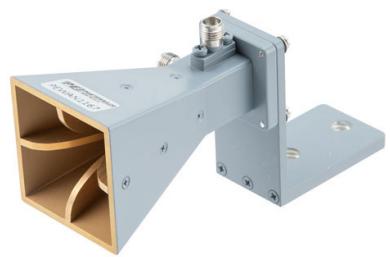
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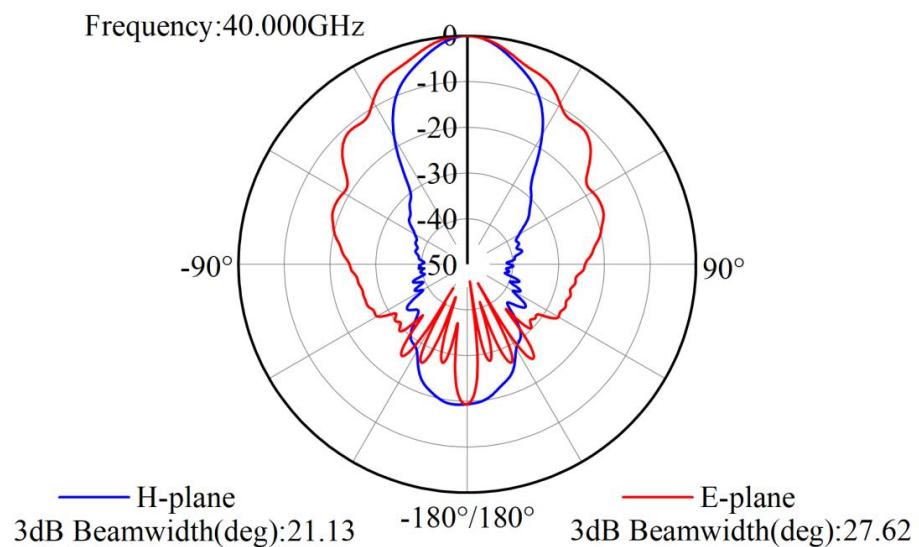
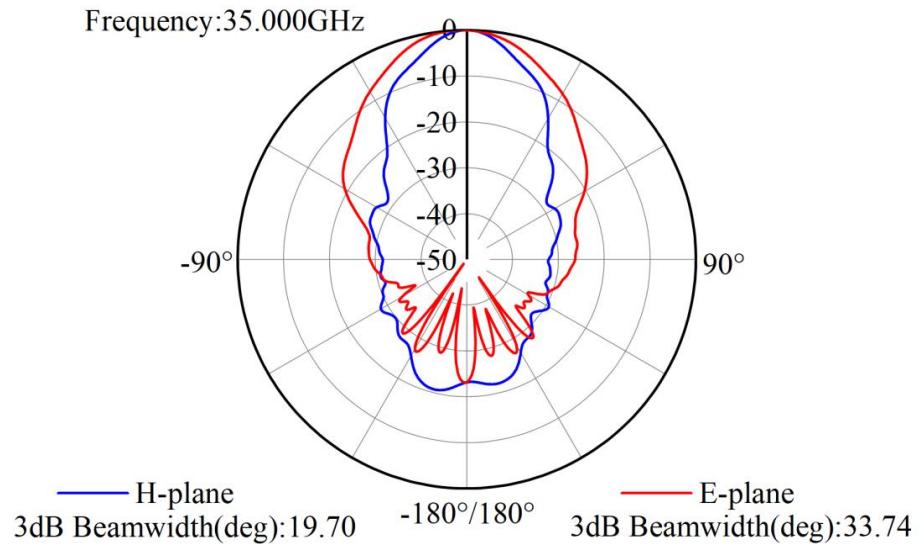
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Broadband Horn Antenna, Dual Polarized 18 GHz to 40 GHz 15 dBi Gain, 2.92mm Female Connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability 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 18 GHz to 40 GHz 15 dBi Gain, 2.92mm Female Connector PEWAN1167](#)

URL: <https://www.pasternack.com/waveguide-horn-antenna-20-ghz-15-dbi-2.92mm-female-pewan1167-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PEWAN1167 CAD Drawing

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