



Broadband Horn Antenna, Dual Polarized 0.8 GHz
to 3 GHz 7 dBi Gain, SMA Female Connector

Specialty Waveguide Antennas Technical Data Sheet

PEWAN1166

Features

- Ultra Broadband 0.8 GHz to 3 GHz
- Open Boundary Quad-Ridge Waveguide
- Dual Polarized
- 7 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 PEWAN1166 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 0.8 GHz to 3 GHz.

Our PEWAN1166 open boundary dual polarized broadband horn antenna has a nominal gain of 7 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 PEWAN1166 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	0.8		3	GHz
Nominal Gain		7		dBi
VSWR		1.5:1		

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.8 to 1.2	1.2 to 1.6	1.6 to 2	2 to 2.5	2.5 to 3	GHz
Gain, Typ	5	7.5	9	10	11	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 0.8 GHz to 3 GHz 7 dBi Gain, SMA Female Connector PEWAN1166](#)



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Mechanical Specifications

Size

Length	8.464567 in [215 mm]
Width	8.464567 in [215 mm]
Height	11.811024 in [300 mm]
Weight	6 lbs [2.72 kg]

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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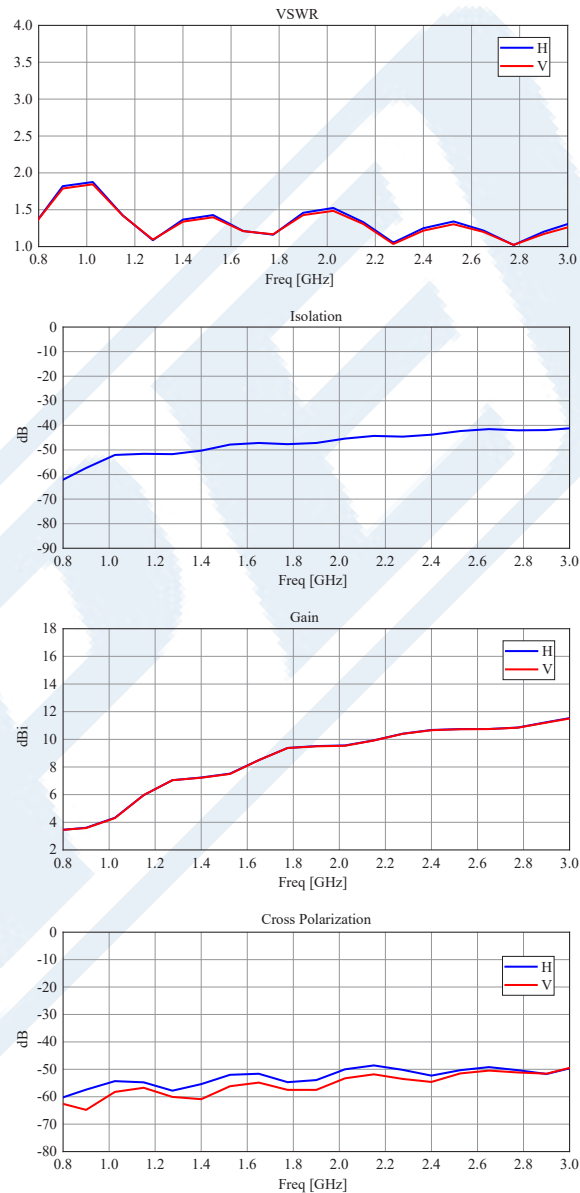


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Typical Performance Data



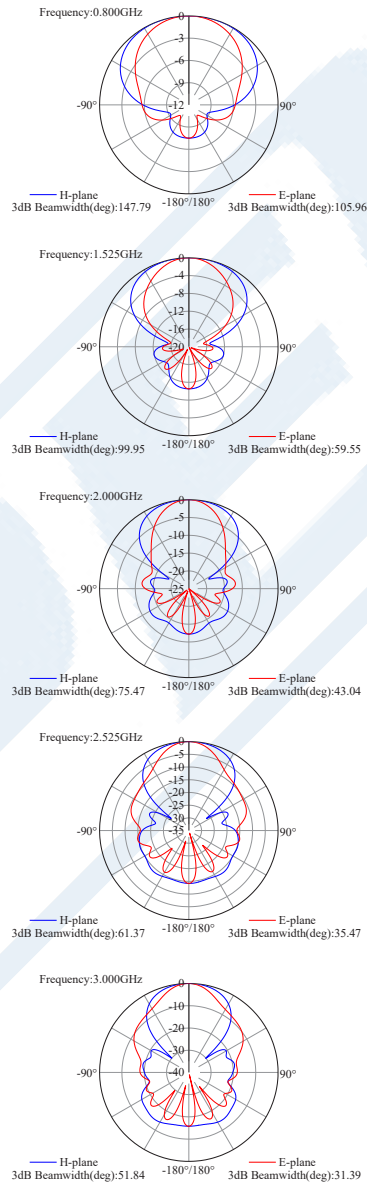
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Broadband Horn Antenna, Dual Polarized 0.8 GHz to 3 GHz 7 dBi Gain, SMA Female Connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability 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 0.8 GHz to 3 GHz 7 dBi Gain, SMA Female Connector PEWAN1166](https://www.pasternack.com/waveguide-horn-antenna-3-ghz-7-dbi-sma-female-pewan1166-p.aspx)

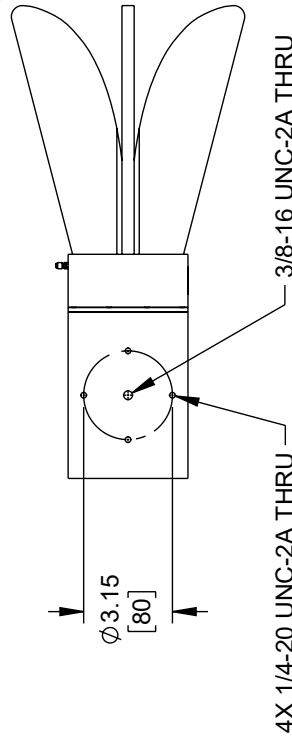
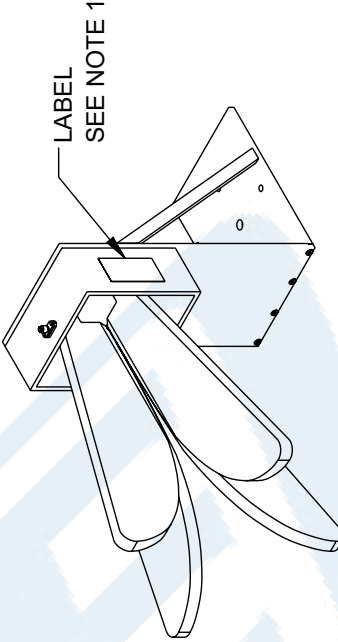
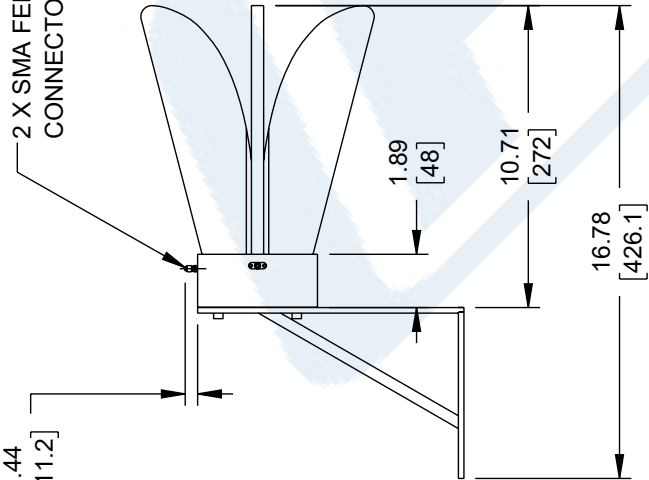
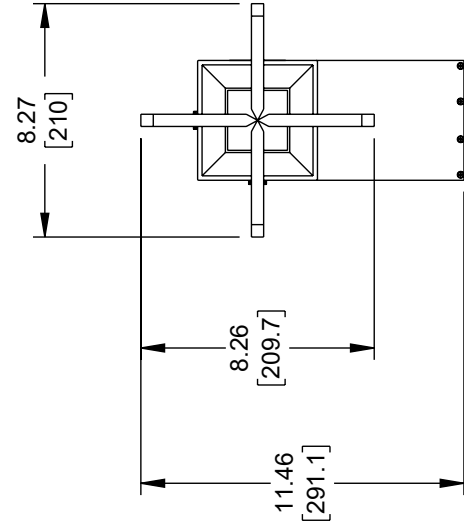
URL: <https://www.pasternack.com/waveguide-horn-antenna-3-ghz-7-dbi-sma-female-pewan1166-p.aspx>

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PEWAN1166 CAD Drawing

Broadband Horn Antenna, Dual Polarized 0.8 GHz to 3 GHz 7 dBi Gain, SMA Female Connector

2 X .44
[11.2]



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 0.8 GHz
TO 3 GHz 20 dBi GAIN, SMA FEMALE CONNECTORS

INTERPRET ALL DIMENSIONS AND
TOLERANCES PER ASME Y14.5

SCALE NONE
SHEET 1 OF 1

SIZE A CAGE CODE 53919 DRAWN BY KGLEBOVA ITEM NO. PEWAN1166 REV A