

Broadband Horn Antenna, Dual Polarized 0.8 GHz to 2 GHz 6 dBi Gain, SMA Female Connector

Specialty Waveguide Antennas Technical Data Sheet

PEWAN1165

Features

- Ultra Broadband 0.8 GHz to 2 GHz
- Open Boundary Quad-Ridge Waveguide
- Dual Polarized
- 6 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 PEWAN1165 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 2 GHz.

Our PEWAN1165 open boundary dual polarized broadband horn antenna has a nominal gain of 6 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 PEWAN1165 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

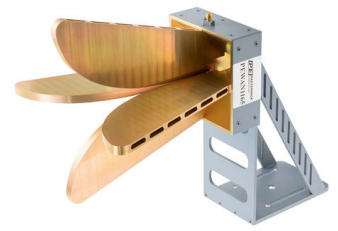
Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.8		2	GHz
Nominal Gain		6		dBi
VSWR		1.5:1		

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.8 to 1.1	1.1 to 1.3	1.3 to 1.5	1.5 to 1.7	1.7 to 2	GHz
Gain, Typ	4	5	7	8	8.5	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 0.8 GHz to 2 GHz 6 dBi Gain, SMA Female Connector PEWAN1165](#)



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Mechanical Specifications

Size

Length	7.874016 in [200 mm]
Width	7.874016 in [200 mm]
Height	8.661417 in [220 mm]
Weight	5.285 lbs [2.4 kg]

Body Material and Plating
RF Connector

Aluminum
SMA Female

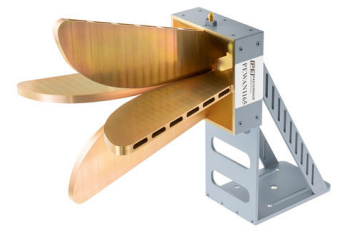
Environmental Specifications

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

Plotted and Other Data

Notes:

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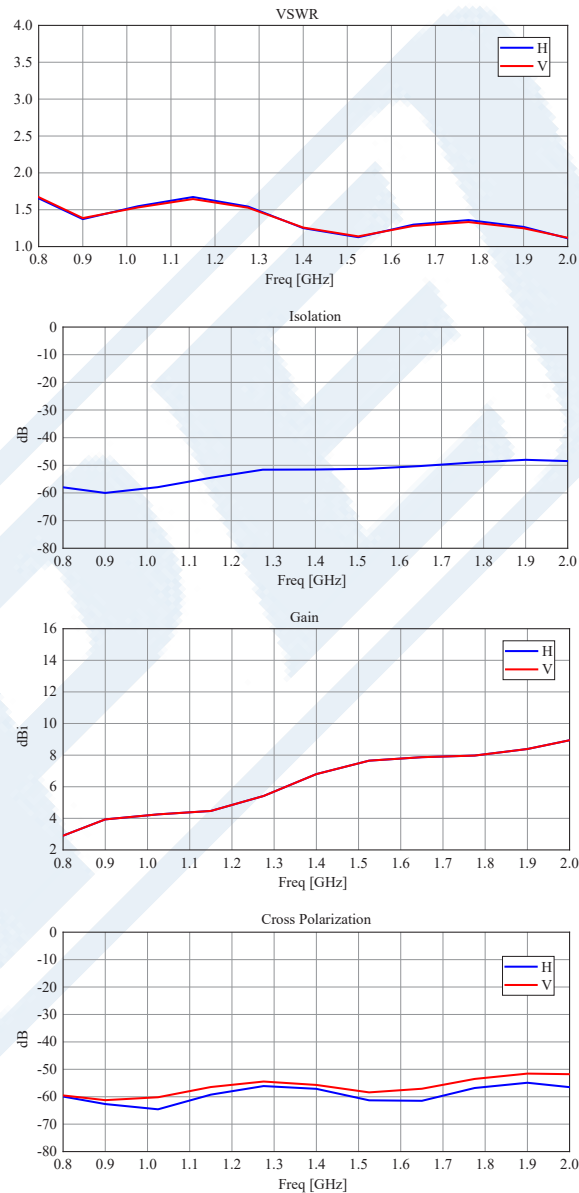


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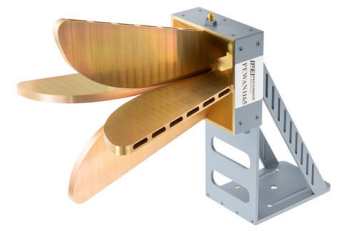
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Typical Performance Data



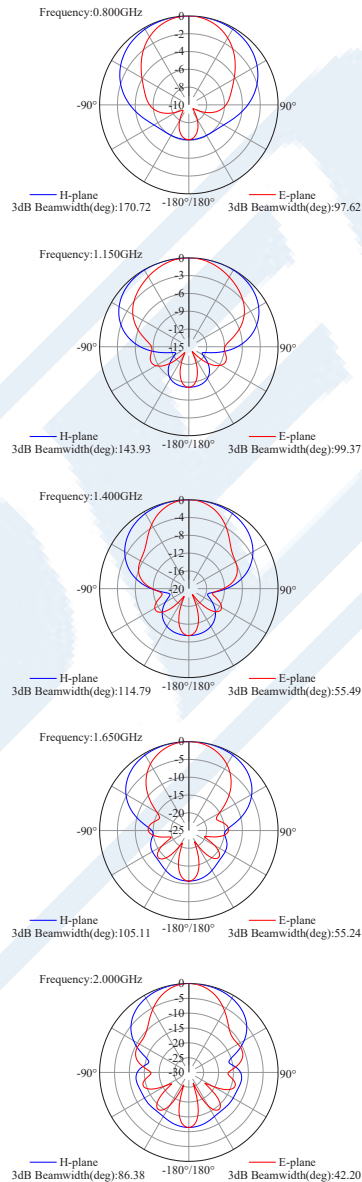
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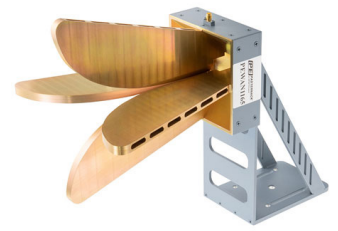
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Broadband Horn Antenna, Dual Polarized 0.8 GHz to 2 GHz 6 dBi Gain, SMA Female Connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

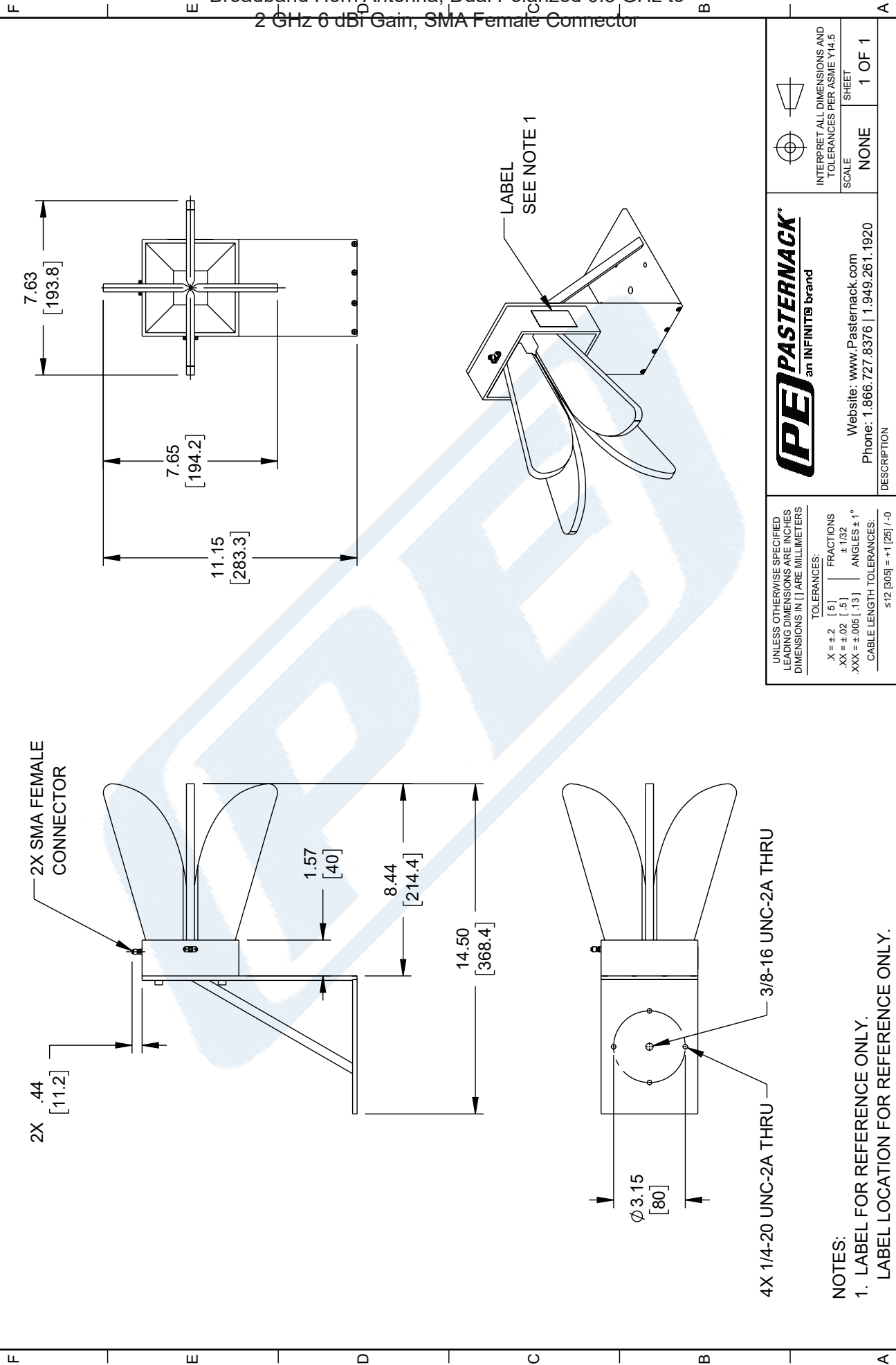
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PEWAN1165 CAD Drawing

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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 ± 1/32
.XX = ±.02 [.5]	ANGLES ± 1°
.XXX = ±.005 [.13]	
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 2 GHz 6 dBi Gain, SMA FEMALE CONNECTORS

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
SCALE	NONE
SHEET	1 OF 1

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	KGLEBOVA	PEWAN1165	A

REVISION			
ZONE	REV	DESCRIPTION	DATE
	A	INITIAL RELEASE	05/10/2023
		CHANGED BY	KHETPAS
		APPROVED	