

Broadband Horn Antenna, Dual Polarized 18 GHz to 54 GHz 15 dBi Gain, 2.4mm Female Connector

Specialty Waveguide Antennas Technical Data Sheet

PEWAN1168

Features

- Ultra Broadband 18 GHz to 54 GHz
- Quad-Ridge Waveguide
- Dual Polarized
- 15 dBi Nominal Gain
- Dual 2.4mm 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 PEWAN1168 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 2.4mm Female coaxial connector and operates from 18 GHz to 54 GHz.

Our PEWAN1168 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 PEWAN1168 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	2.4mm Female

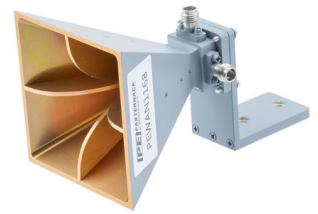
Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	18		54	GHz
Nominal Gain		15		dBi
VSWR		1.5:1		

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	18 to 24	24 to 30	30 to 38	38 to 44	44 to 52	GHz
Gain, Typ	13	15.5	14	14.5	16	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 18 GHz to 54 GHz 15 dBi Gain, 2.4mm Female Connector PEWAN1168](#)



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Mechanical Specifications

Size

Length	2.362205 in [60 mm]
Width	2.362205 in [60 mm]
Height	3.740157 in [95 mm]
Weight	0.42 lbs [190.51 g]

Body Material and Plating
RF Connector

Aluminum
2.4mm Female

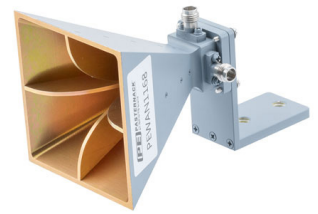
Environmental Specifications

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

Plotted and Other Data

Notes:

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 54 GHz 15 dBi Gain, 2.4mm Female Connector PEWAN1168](#)

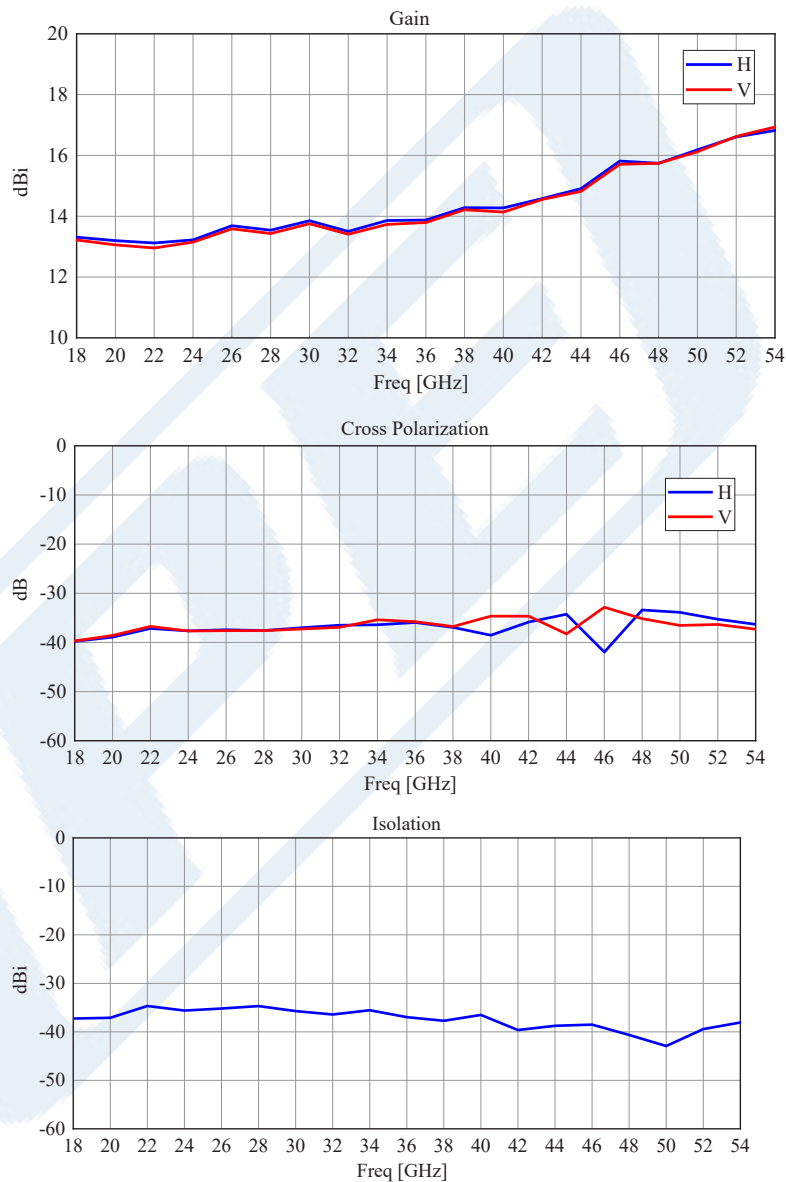


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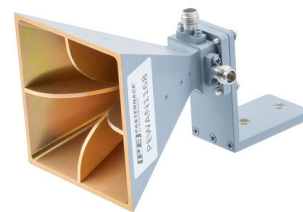
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Typical Performance Data



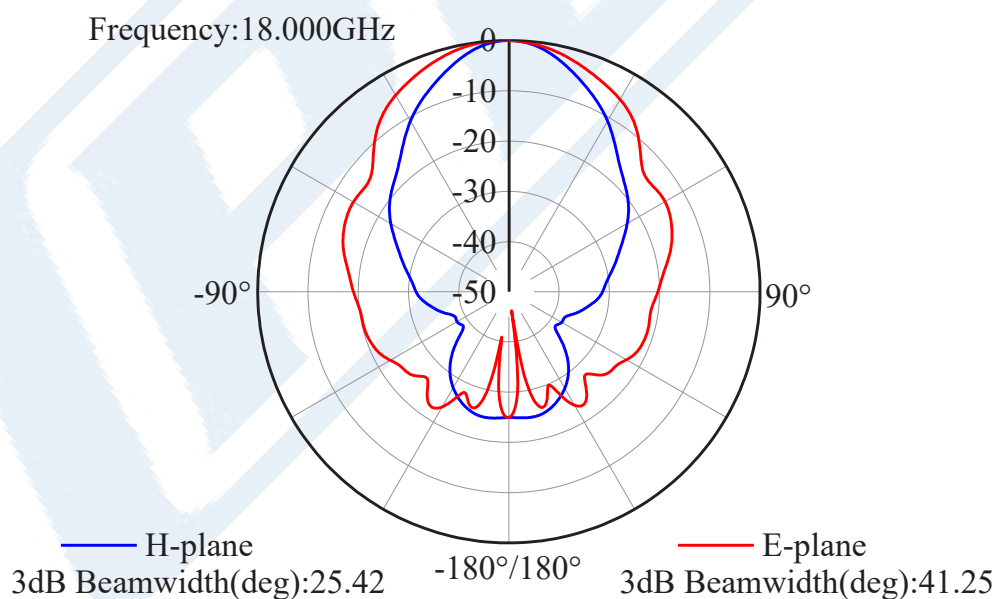
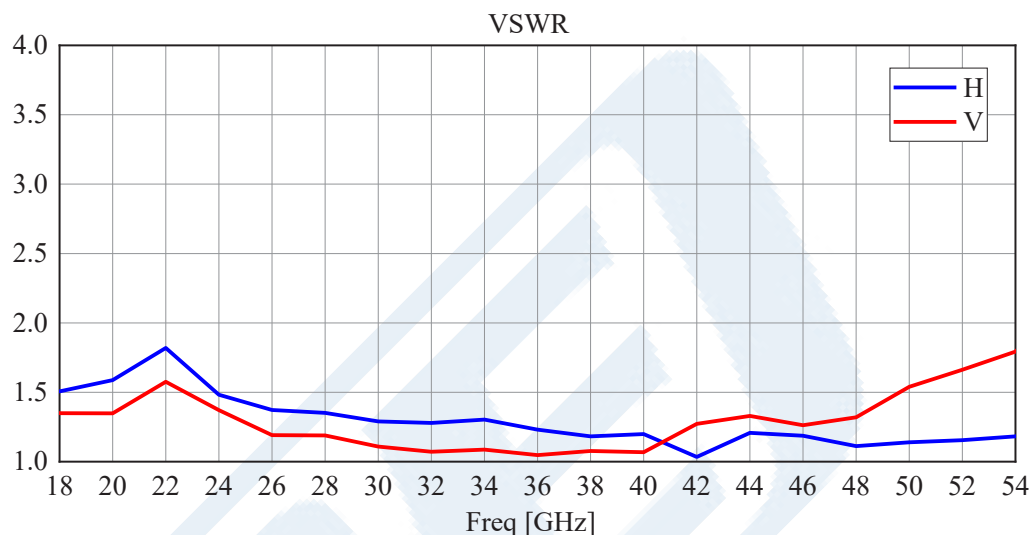
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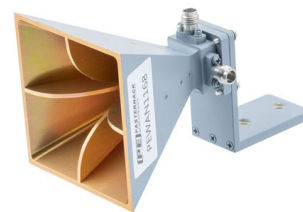
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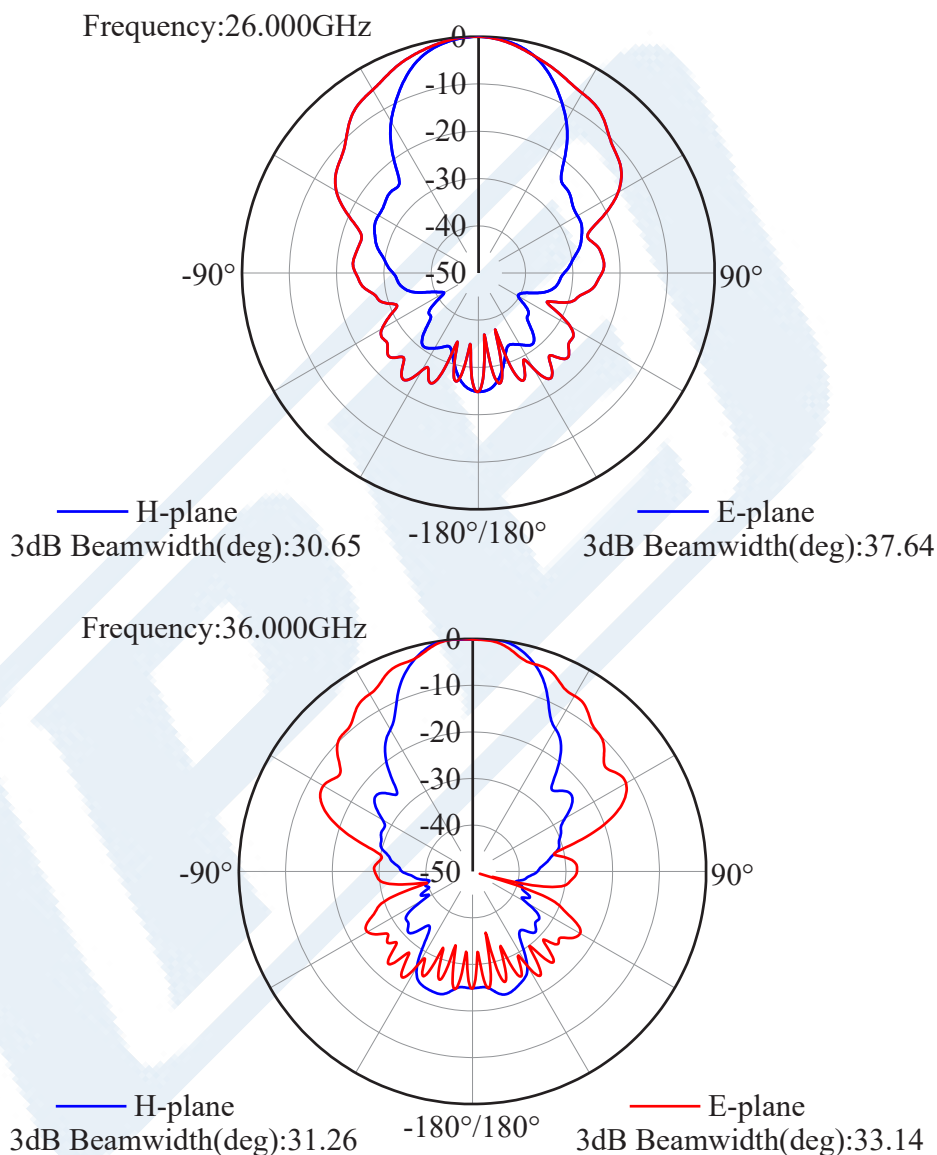
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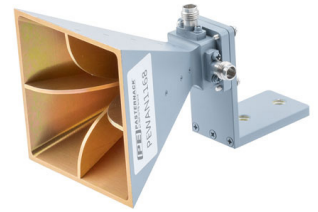
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Broadband Horn Antenna, Dual Polarized 18 GHz to 54 GHz 15 dBi Gain, 2.4mm Female Connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability 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 54 GHz 15 dBi Gain, 2.4mm Female Connector PEWAN1168](https://www.pasternack.com/waveguide-horn-antenna-54-ghz-15-dbi-2.4mm-female-pewan1168-p.aspx)

URL: <https://www.pasternack.com/waveguide-horn-antenna-54-ghz-15-dbi-2.4mm-female-pewan1168-p.aspx>

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

PEWAN1168 CAD Drawing

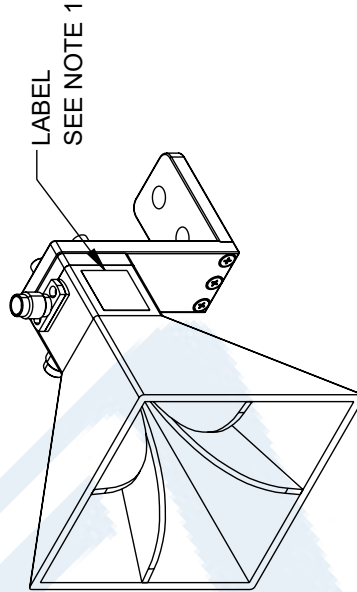
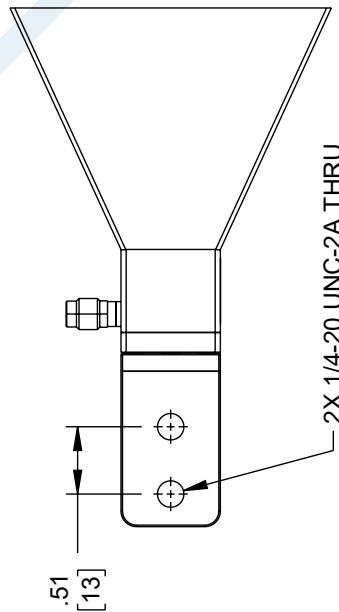
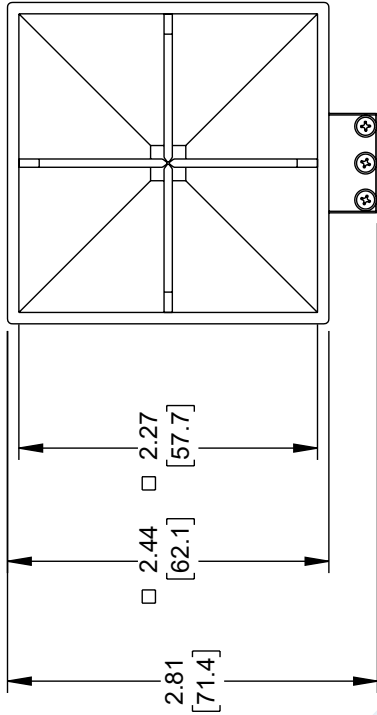
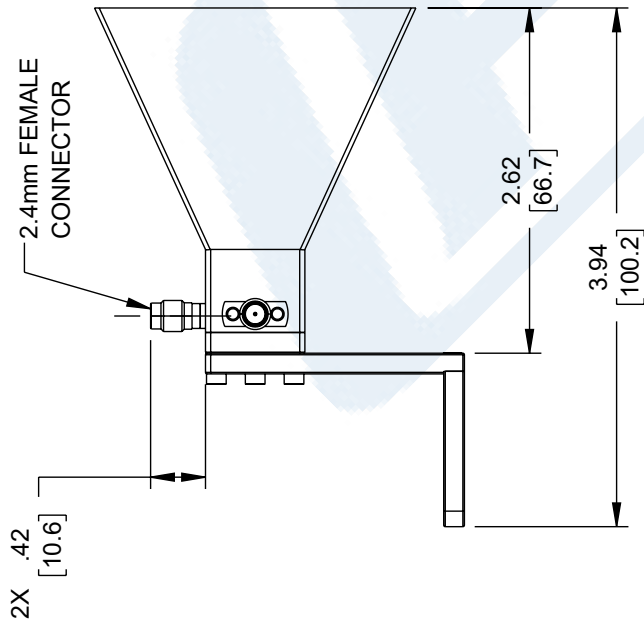
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15 dBi Gain, 2.4mm Female Connector

1 2 3 4 5 6

F E D C B A

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



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



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

DESCRIPTION

BROADBAND HORN ANTENNA, DUAL POLARIZED 18 GHz
TO 54 GHz 15 dBi GAIN, 2.4mm FEMALE CONNECTORS

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	KGLEBOVA	PEWAN1168	A



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