

Broadband Gain Horn Antenna, 18 GHz to 50 GHz
15 dBi Gain, 2.4mm Female Connector

Specialty Waveguide Antennas Technical Data Sheet

PEWAN1155

Features

- Antenna Measurements
- Laboratory Use
- Microwave Testing
- Radome Testing
- EMC measurement
- Satellite Antenna Testing
- Radar Cross Section

Applications

- Ultra Broadband 18 GHz to 50 GHz
- Double-Ridge Waveguide
- Linearly Polarized
- 15 dBi Nominal Gain
- 2.4mm Female Connector
- Mounting Bracket Included
- Powder Coated Aluminum

Description

The PEWAN1155 broadband gain horn antenna (double ridge waveguide horn) from Pasternack is part of our comprehensive selection of waveguide antennas. This broadband horn features an 2.4mm Female coaxial connector and operates from 18 to 50 GHz.

Our PEWAN1155 broadband gain horn antenna has a nominal gain of 15 dBi with a typical input VSWR of 1.5:1. Pasternack's double-ridge broadband horns are available in 10, 11, 13, 15, and 20 dBi models with varying cross band frequency ranges to suit all application needs.

Waveguide antennas, such as the PEWAN1155 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 double ridge waveguide antennas with 2.4mm Female interface are part of over 40,000 RF, microwave, and millimeter wave components from Pasternack available worldwide and Ship same day.

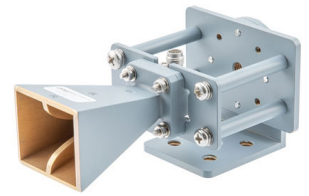
Configuration

Pattern	Directional
Polarization	Linear
Antenna Design Type	Broadband Gain Horn
RF Connector	2.4mm Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	18		50	GHz
Nominal Gain		15		dBi
VSWR		1.5:1		

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Broadband Gain Horn Antenna, 18 GHz to 50 GHz 15 dBi Gain, 2.4mm Female Connector PEWAN1155](#)



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Mechanical Specifications

Size

Length 1.25 in [31.75 mm]

Width 1.17 in [29.72 mm]

Height 2.8 in [71.12 mm]

Weight 0.144 lbs [65.32 g]

Body Material and Plating Aluminum, Powder Coat
RF Connector 2.4mm Female

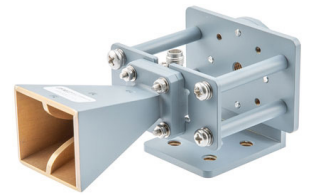
Environmental Specifications

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

Plotted and Other Data

Notes:

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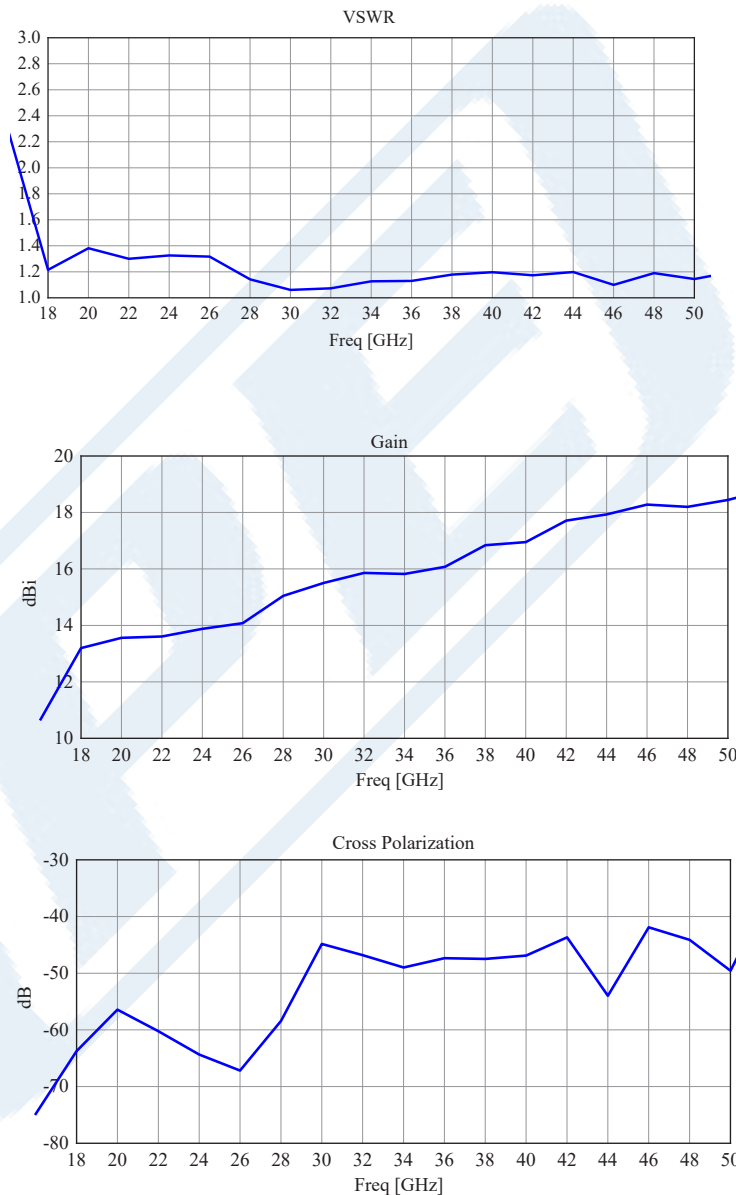


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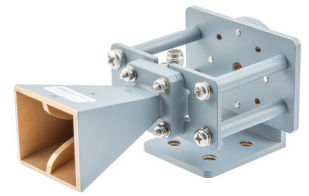
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Typical Performance Data



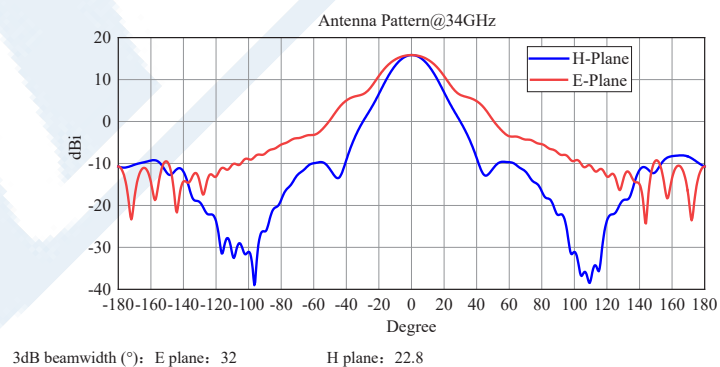
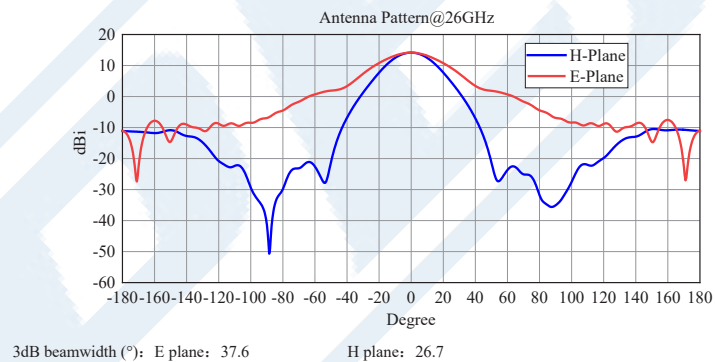
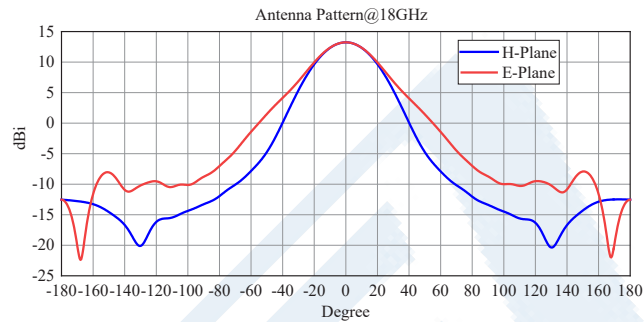
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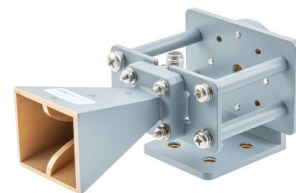
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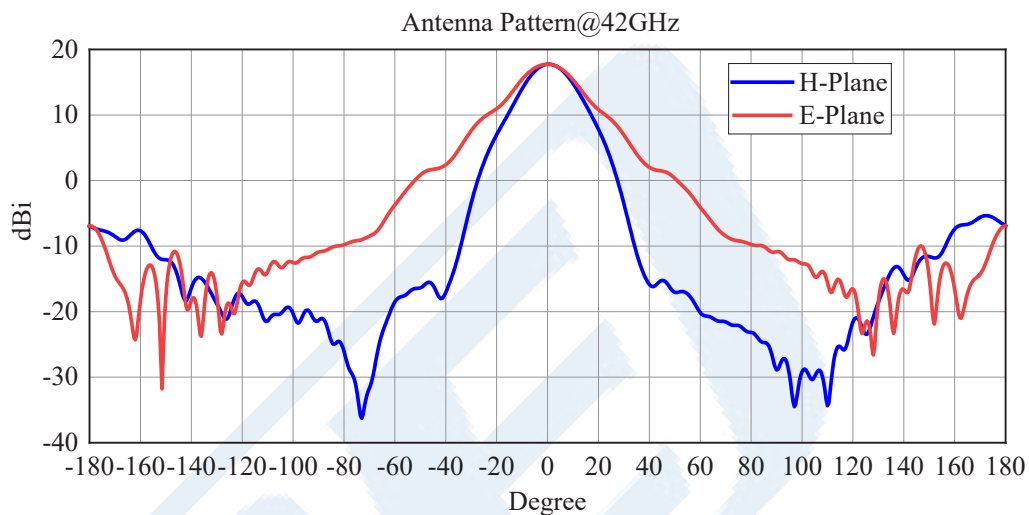
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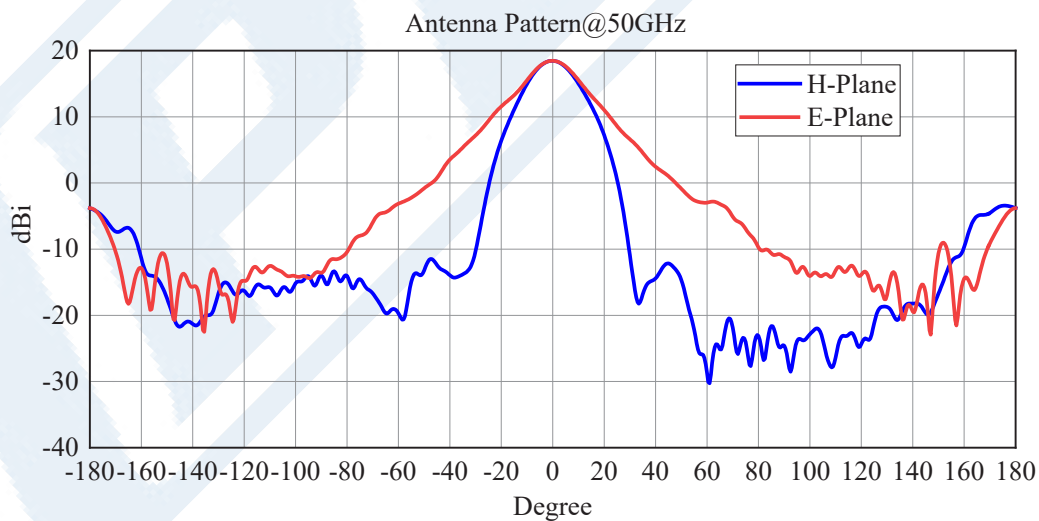
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3dB beamwidth (°): E plane: 22.8

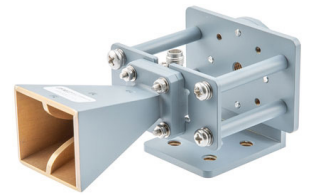
H plane: 18.9



3dB beamwidth (°): E plane: 20.32

H plane: 18.5

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Broadband Gain Horn Antenna, 18 GHz to 50 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.

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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.

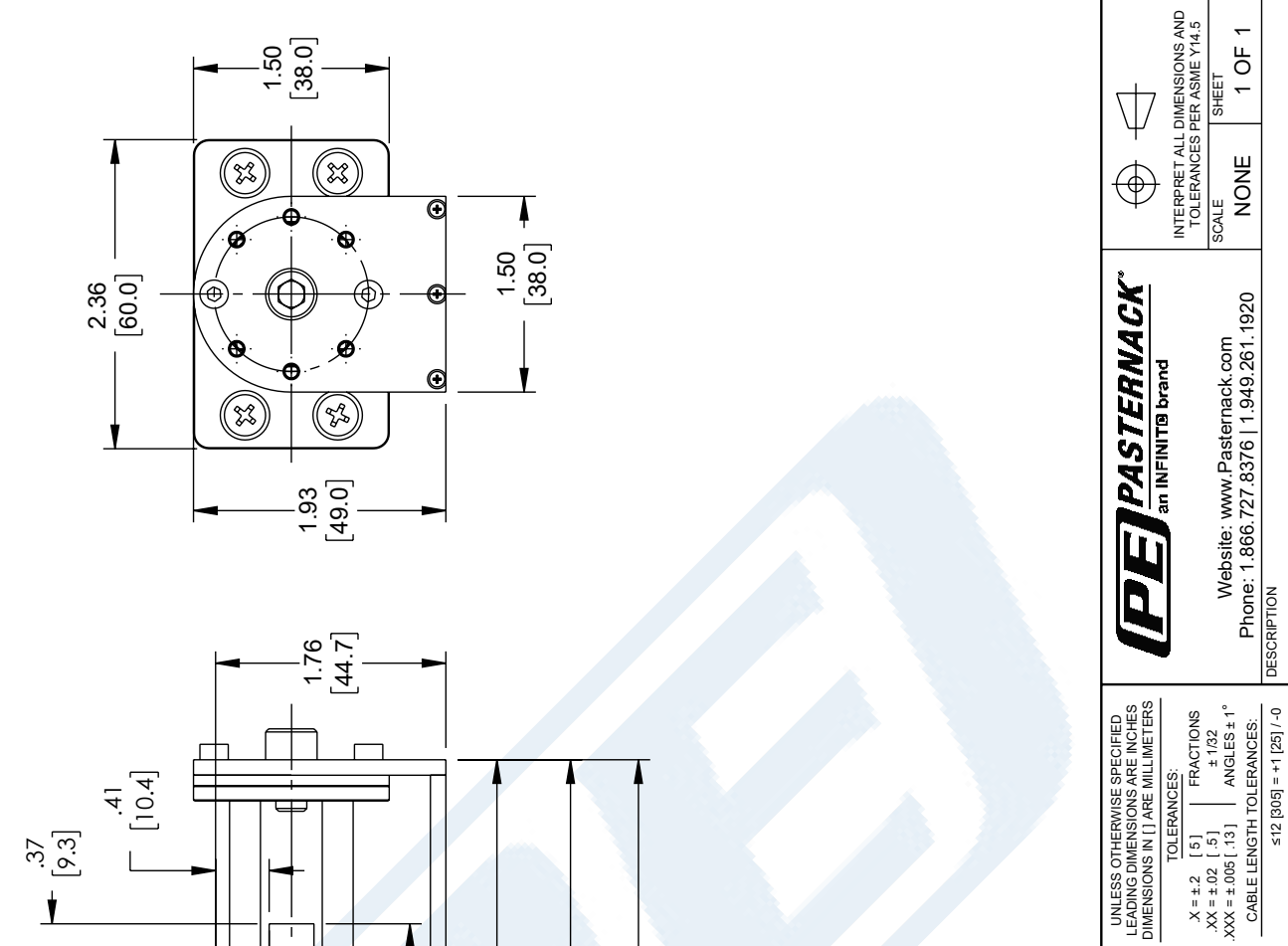
PEWAN1155 CAD Drawing

Broadband Gain Horn Antenna, 18 GHz to 50 GHz 15 dBi Gain, 2.4mm Female Connector

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F E D C B A

6 5 4 3 2 1



ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	B	ECO-12727	07/14/2023	LNAGARAJ	WILLIAMSON

REVISION	1	2	3	4	5	6
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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	PEP PASTERNAK® an INFINITI® brand	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
TOLERANCES: X = ±.2 [5] FRACTIONS .XX = ±.02 [.5] ±.132 .XXX = ±.005 [.13] ANGLES ± 1°	Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	SCALE NONE SHEET 1 OF 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	DESCRIPTION BROADBAND GAIN HORN ANTENNA, 18 GHZ TO 50 GHZ 15 DBI GAIN, 2.4MM FEMALE CONNECTOR	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE	SIZE A CAGE CODE 53919 DRAWN BY KGLEBOVA ITEM NO. PEWAN1155	REV B

NOTES:

1. LABEL FOR REFERENCE ONLY.
LABEL LOCATION FOR REFERENCE ONLY.
2. MOUNTING BRACKET INCLUDED.

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