

Broadband Gain Horn Antenna, 6 GHz to 18 GHz
10 dBi Gain, N Female Connector

Specialty Waveguide Antennas Technical Data Sheet

PEWAN1159

Features

- Antenna Measurements
- Laboratory Use
- Microwave Testing
- Radome Testing
- EMC measurement
- Satellite Antenna Testing

Applications

- Ultra Broadband 6 GHz to 18 GHz
- Double-Ridge Waveguide
- Linearly Polarized
- 10 dBi Nominal Gain
- N Female Connector
- Mounting Bracket Included
- Powder Coated Aluminum

Description

The PEWAN1159 broadband gain horn antenna (double ridge waveguide horn) from Pasternack is part of our comprehensive selection of waveguide antennas. This broadband horn features an N Female coaxial connector and operates from 6 to 18 GHz.

Our PEWAN1159 broadband gain horn antenna has a nominal gain of 10 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 PEWAN1159 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 N Female interface are part of over 40,000 RF, microwave, and millimeter wave components from Pasternack available worldwide and Ship same day.

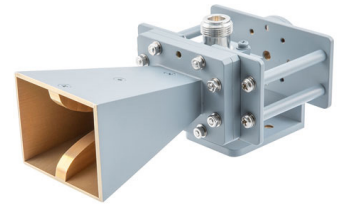
Configuration

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

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	6		18	GHz
Nominal Gain		10		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, 6 GHz to 18 GHz 10 dBi Gain, N Female Connector PE-WAN1159](#)



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Mechanical Specifications

Size

Length 2.16 in [54.86 mm]

Width 2.16 in [54.86 mm]

Height 4.3 in [109.22 mm]

Weight 0.374 lbs [169.64 g]

Body Material and Plating Aluminum, Powder Coat
RF Connector N Female

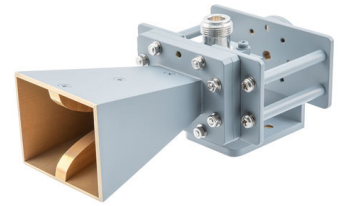
Environmental Specifications

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

Plotted and Other Data

Notes:

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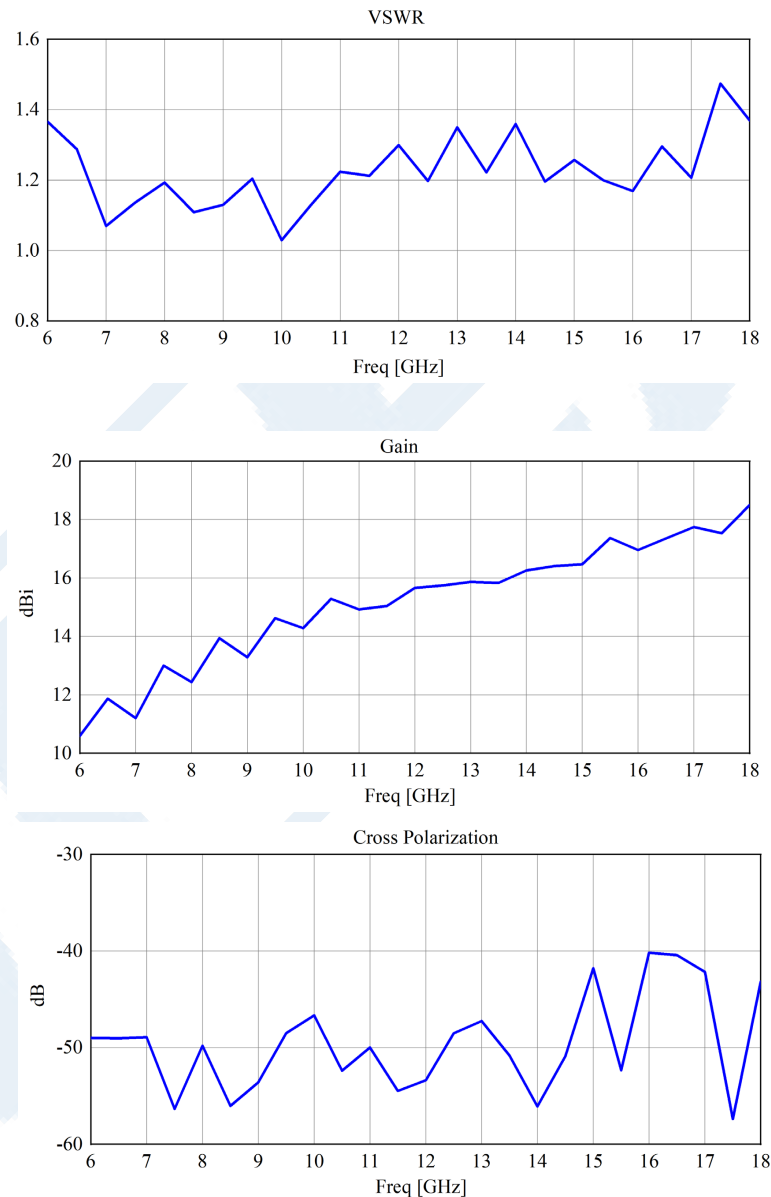


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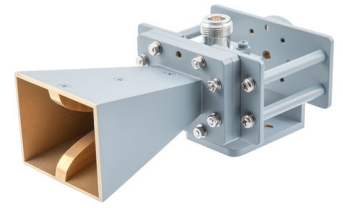
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Typical Performance Data



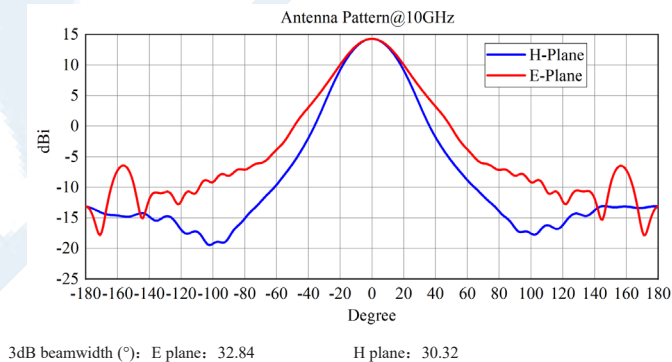
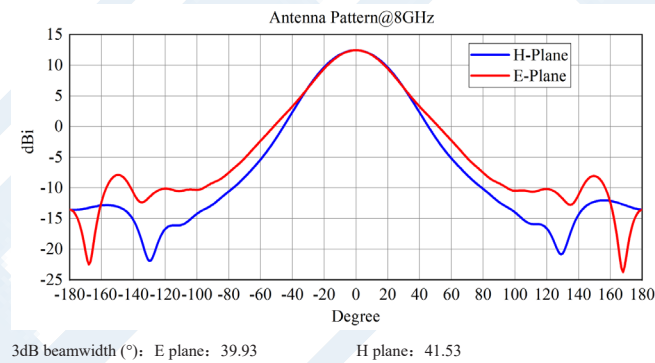
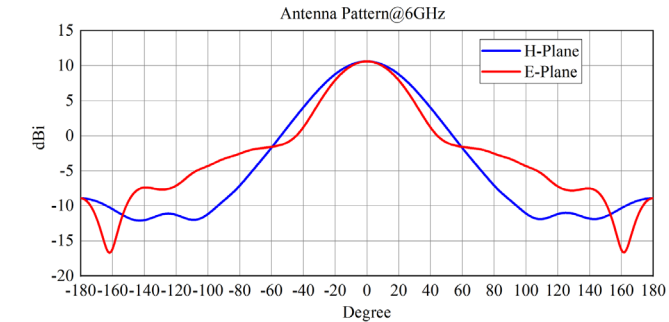
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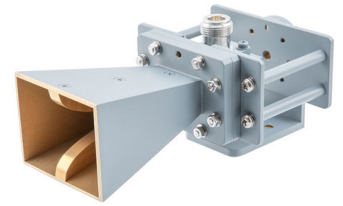
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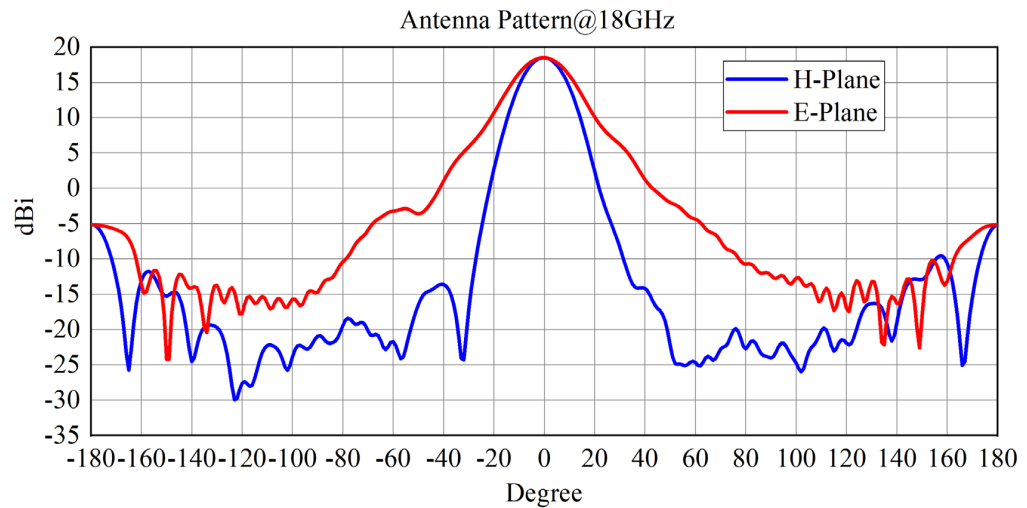
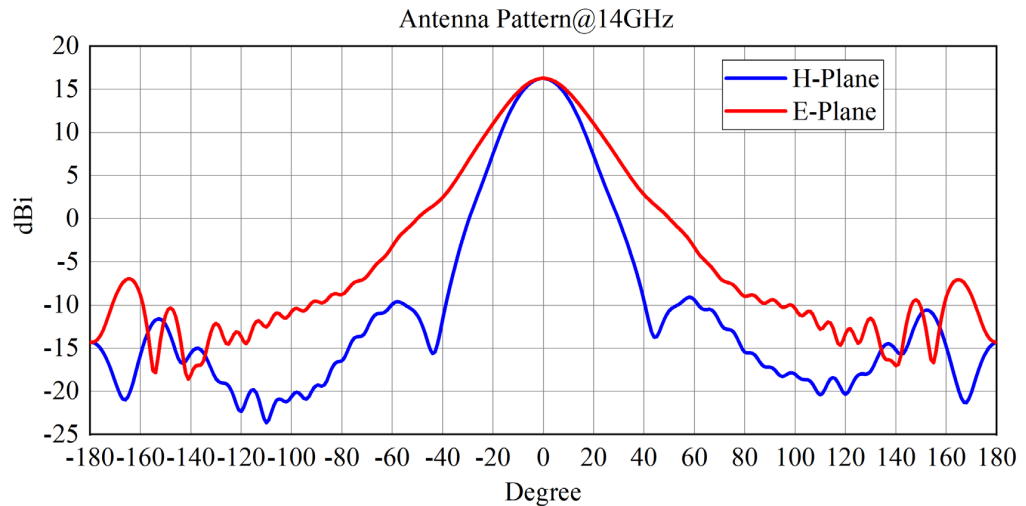
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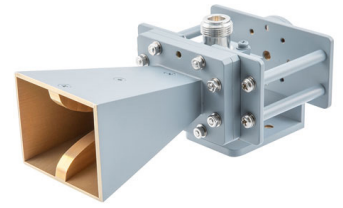
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Broadband Gain Horn Antenna, 6 GHz to 18 GHz 10 dBi Gain, N Female Connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are 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 Gain Horn Antenna, 6 GHz to 18 GHz 10 dBi Gain, N Female Connector PEWAN1159](https://www.pasternack.com/waveguide-horn-antenna-18-ghz-10-dbi-n-female-pewan1159-p.aspx)

URL: <https://www.pasternack.com/waveguide-horn-antenna-18-ghz-10-dbi-n-female-pewan1159-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.

PEWAN1159 CAD Drawing

Broadband Gain Horn Antenna, 6 GHz to 18 GHz 10 dBi Gain, N Female Connector

F

E

D

C

B

A

F

E

D

C

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A

1

2

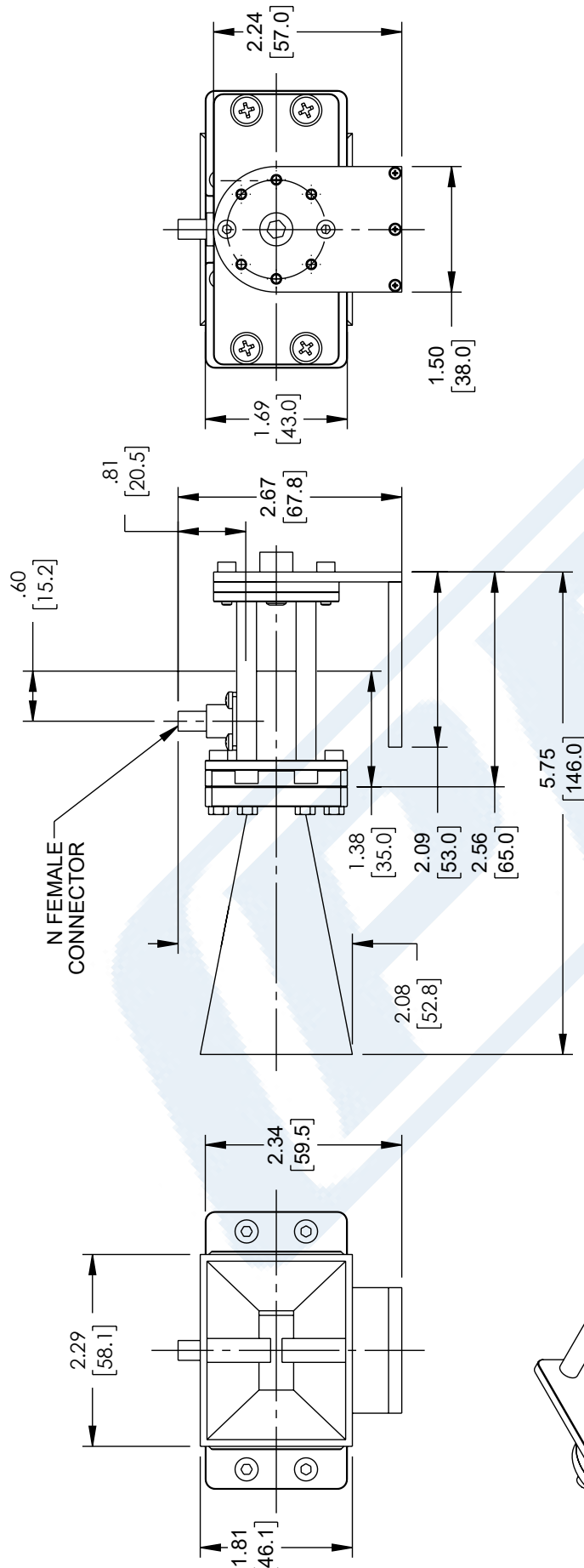
3

4

5

6

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



NOTES:

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

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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] = ±.125 / -0
> 12 [305] ≤ 60 [1524] = +.2 [51] / -0
> 60 [1524] ≤ 120 [3048] = +.4 [102] / -0
> 120 [3048] ≤ 300 [7620] = +.6 [152] / -0
> 300 [7620] = +.6% / -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 GAIN HORN ANTENNA, 6 GHZ TO 18 GHZ
10 DBI GAIN, N FEMALE CONNECTOR



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	PEWAN1159	B

T-Rev.D2