

Broadband Gain Horn Antenna, 8 GHz to 18 GHz
10 dBi Gain, SMA Female Connector

Specialty Waveguide Antennas Technical Data Sheet

PEWAN1161

Features

- Antenna Measurements
- Laboratory Use
- Microwave Testing

- Radome Testing
- EMC measurement
- Satellite Antenna Testing

Applications

- Ultra Broadband 8 GHz to 18 GHz
- Double-Ridge Waveguide
- Linearly Polarized

- 10 dBi Nominal Gain
- SMA Female Connector
- Mounting Bracket Included

- Powder Coated Aluminum

Description

The PEWAN1161 broadband gain horn antenna (double ridge waveguide horn) from Pasternack is part of our comprehensive selection of waveguide antennas. This broadband horn features an SMA Female coaxial connector and operates from 8 to 18 GHz.

Our PEWAN1161 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 PEWAN1161 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 SMA Female interface are part of over 40,000 RF, microwave, and millimeter wave components from Pasternack available worldwide and Ship same day.

Configuration

Pattern
Polarization
Antenna Design Type
RF Connector

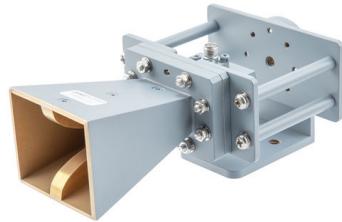
Directional
Linear
Broadband Gain Horn
SMA Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	8		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, 8 GHz to 18 GHz 10 dBi Gain, SMA Female Connector PEWAN1161](#)

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Mechanical Specifications

Size

Length

1.88 in [47.75 mm]

Width

1.5 in [38.1 mm]

Height

3.8 in [96.52 mm]

Weight

0.296 lbs [134.26 g]

Body Material and Plating

Aluminum, Powder Coat

RF Connector

SMA Female

Environmental Specifications

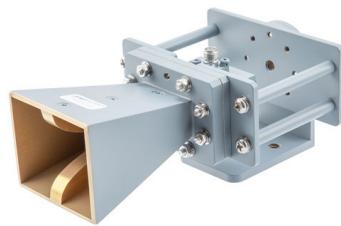
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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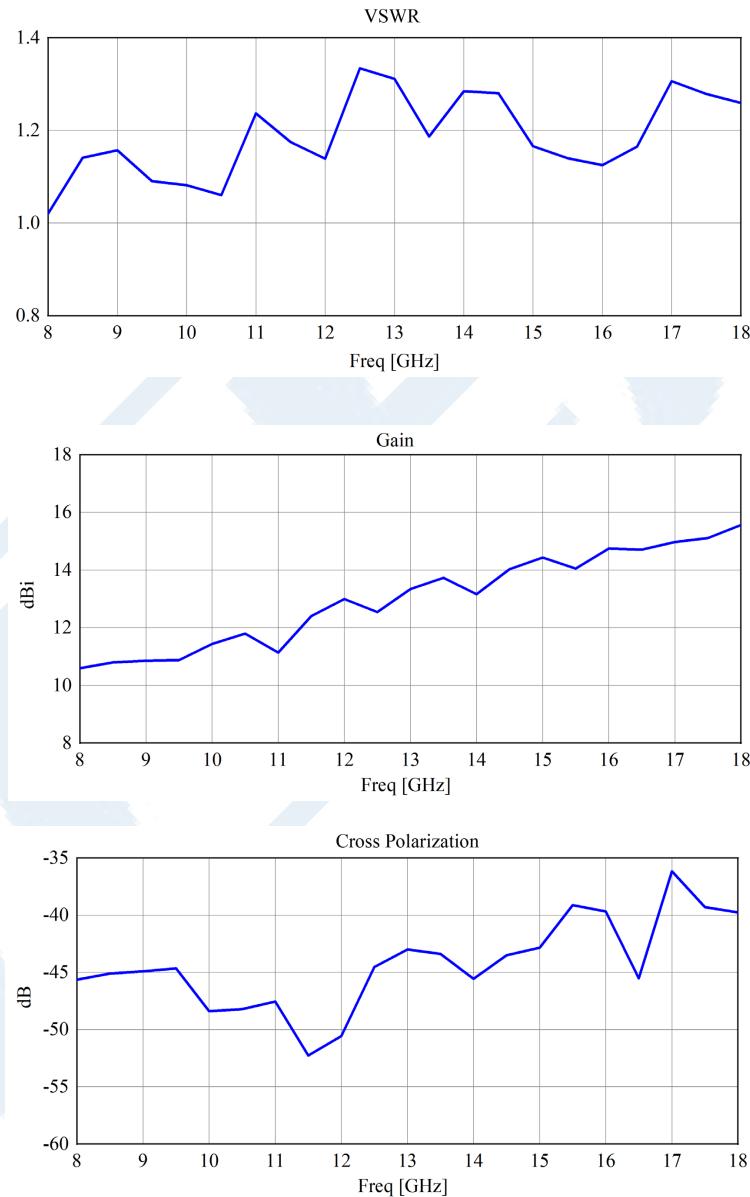
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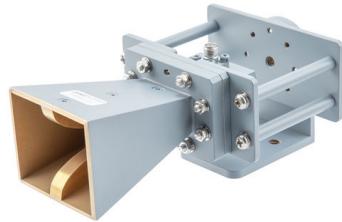
PEWAN1161

Typical Performance Data



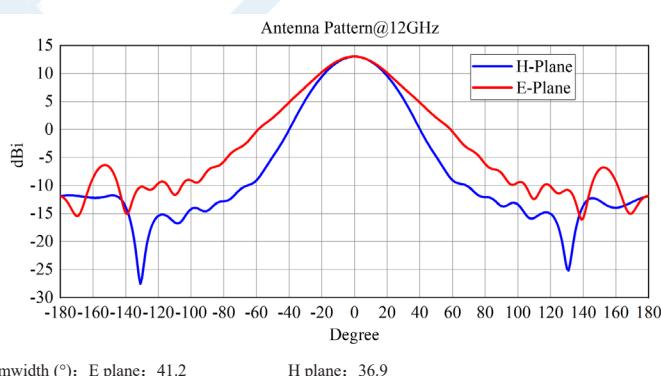
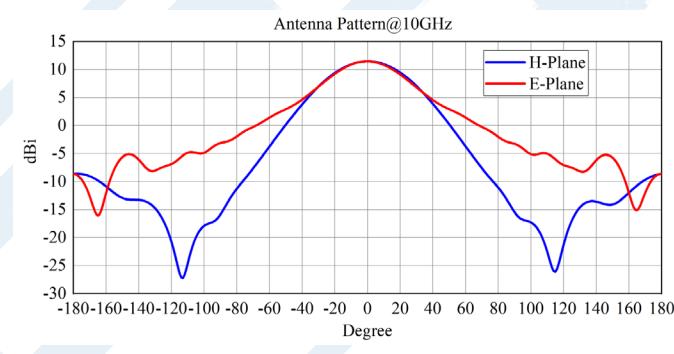
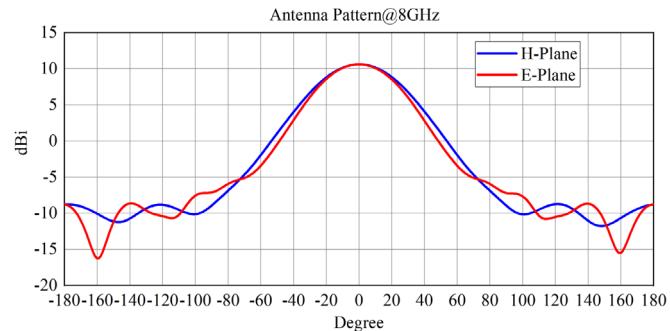
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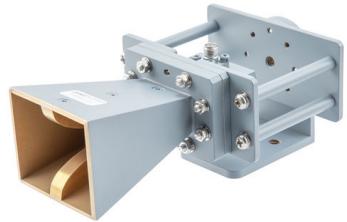
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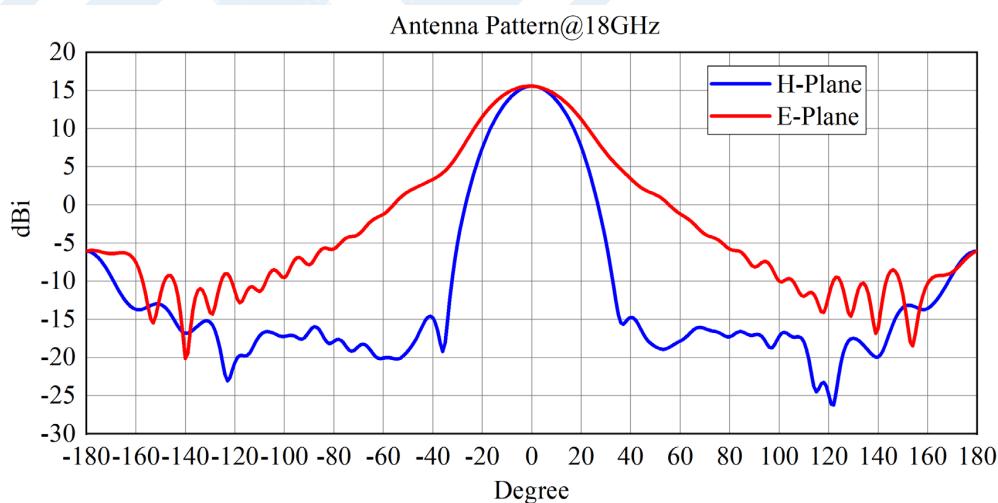
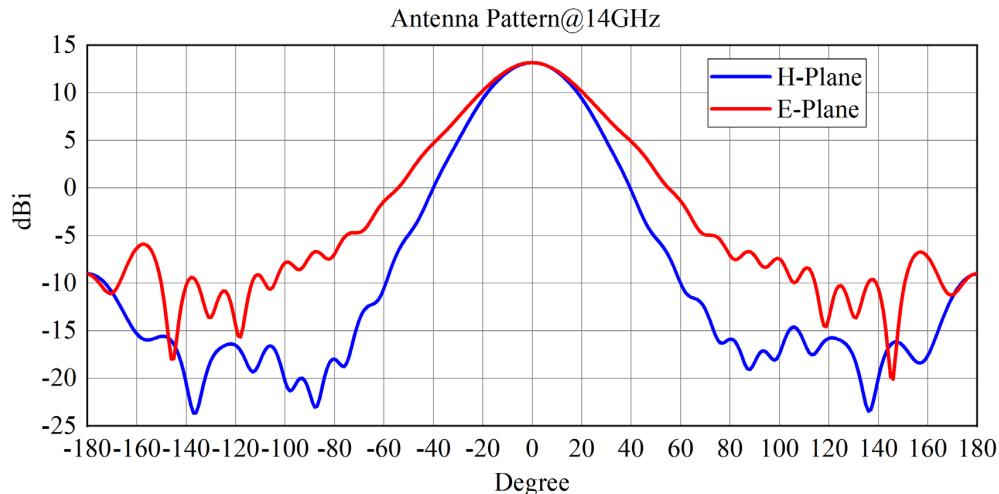
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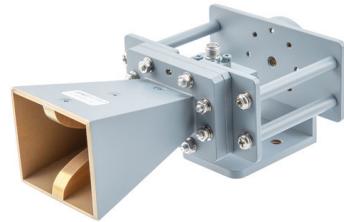
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Broadband Gain Horn Antenna, 8 GHz to 18 GHz 10 dBi Gain, SMA Female Connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and 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 Gain Horn Antenna, 8 GHz to 18 GHz 10 dBi Gain, SMA Female Connector PEWAN1161](#)

URL: <https://www.pasternack.com/waveguide-horn-antenna-18-ghz-10-dbi-sma-female-pewan1161-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.

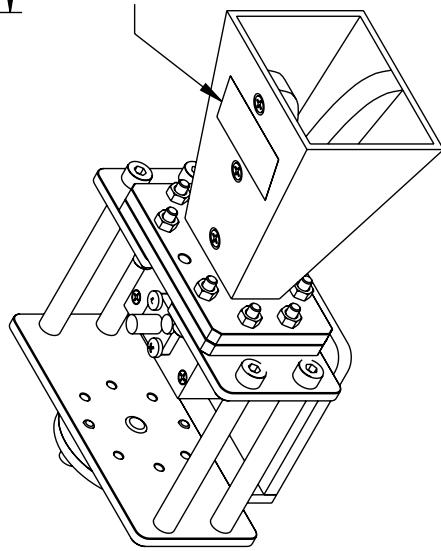
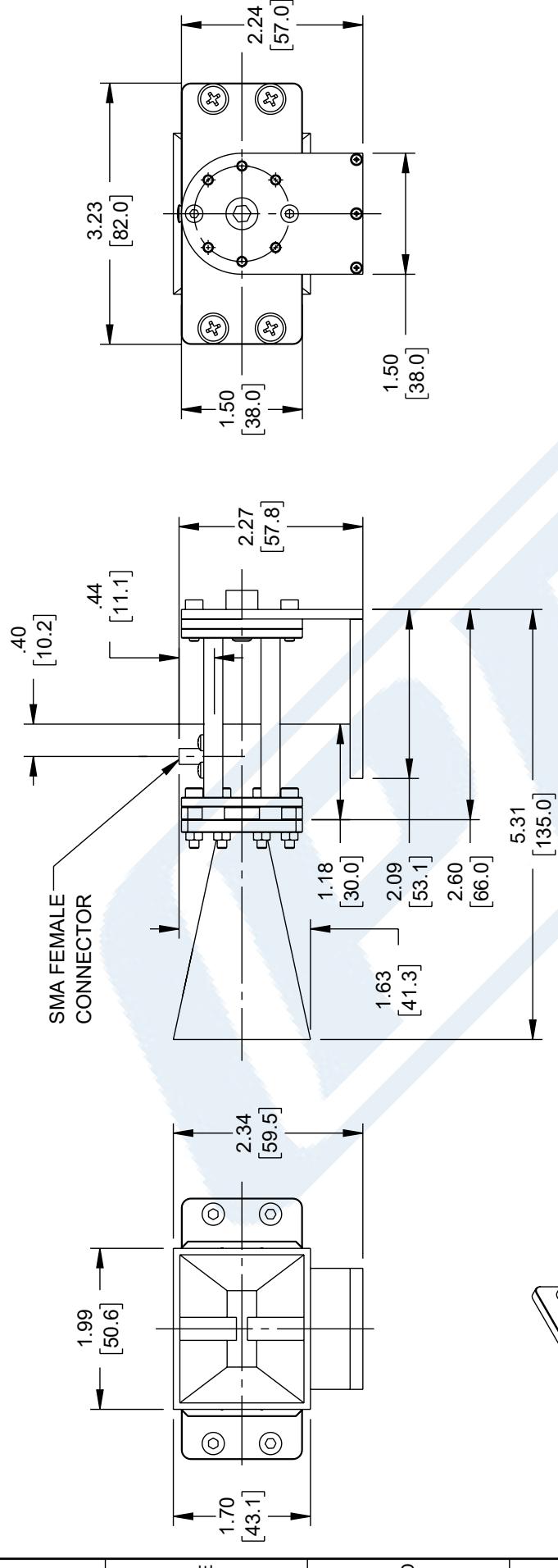
PEWAN1161 CAD Drawing

Broadband Gain Horn Antenna, 8 GHz to 18 GHz 10 dBi Gain, SMA Female Connector

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ZONE	REV	DESCRIPTION	REVISION	DATE	CHANGED BY	APPROVED
B	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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	SCALE SHEET
NONE	1 OF 1
DESCRIPTION	BROADBAND GAIN HORN ANTENNA, 8 GHZ TO 18 GHZ 10 DBI GAIN, SMA FEMALE CONNECTOR
ITEM NO.	PEWAN1161
REV	B