

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

## Specialty Waveguide Antennas Technical Data Sheet

**PEWAN1156**

### 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
- 20 dBi Nominal Gain
- 2.4mm Female Connector
- Mounting Bracket Included
- Powder Coated Aluminum

### Description

The PEWAN1156 broadband gain horn antenna (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 PEWAN1156 broadband gain horn antenna has a nominal gain of 20 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 PEWAN1156 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 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.

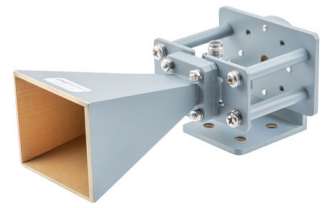
### Configuration

|                     |                     |
|---------------------|---------------------|
| 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    |         | 20      |         | 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 20 dBi Gain, 2.4mm Female Connector PEWAN1156](#)



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### Mechanical Specifications

#### Size

Length 2.16 in [54.86 mm]

Width 2.16 in [54.86 mm]

Height 4.44 in [112.78 mm]

Weight 0.168 lbs [76.2 g]

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

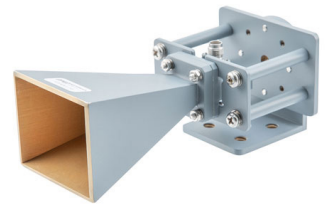
### Environmental Specifications

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

### Plotted and Other Data

Notes:

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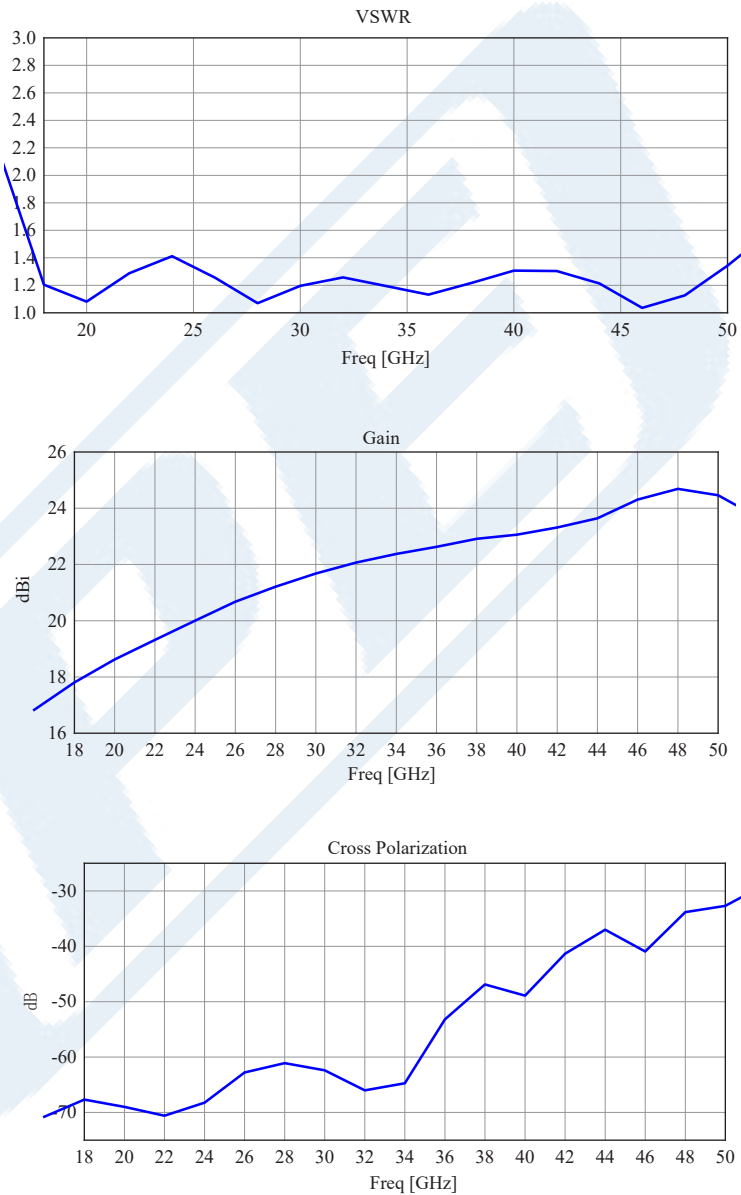


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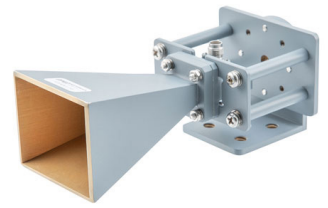
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### Typical Performance Data



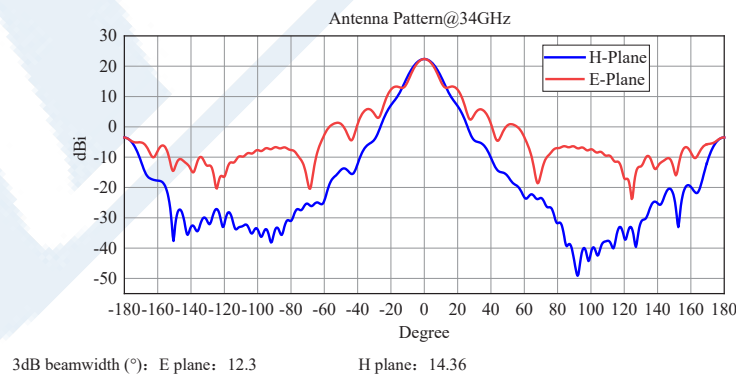
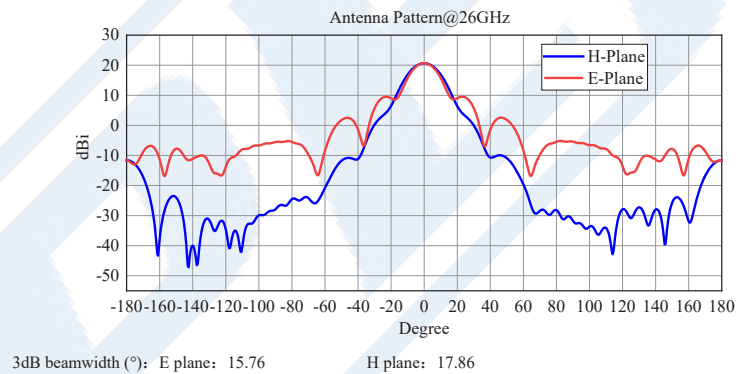
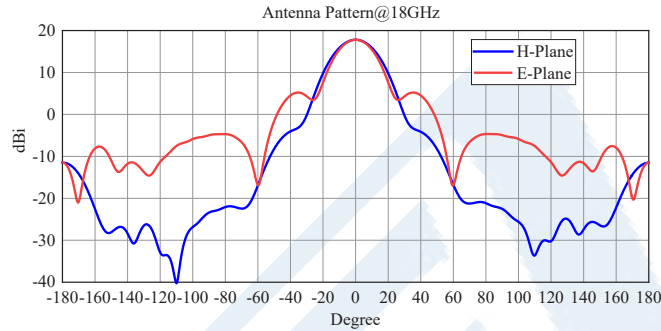
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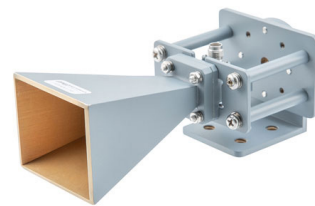
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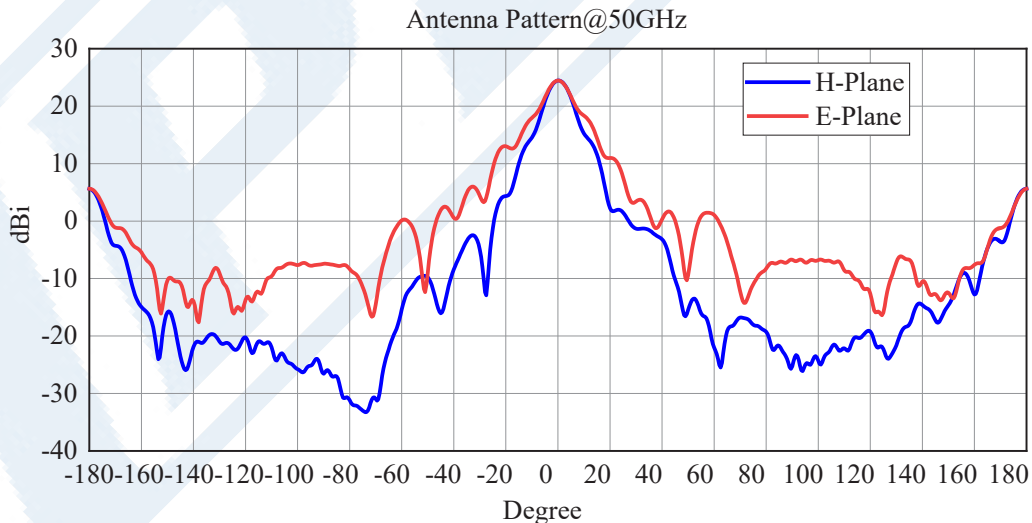
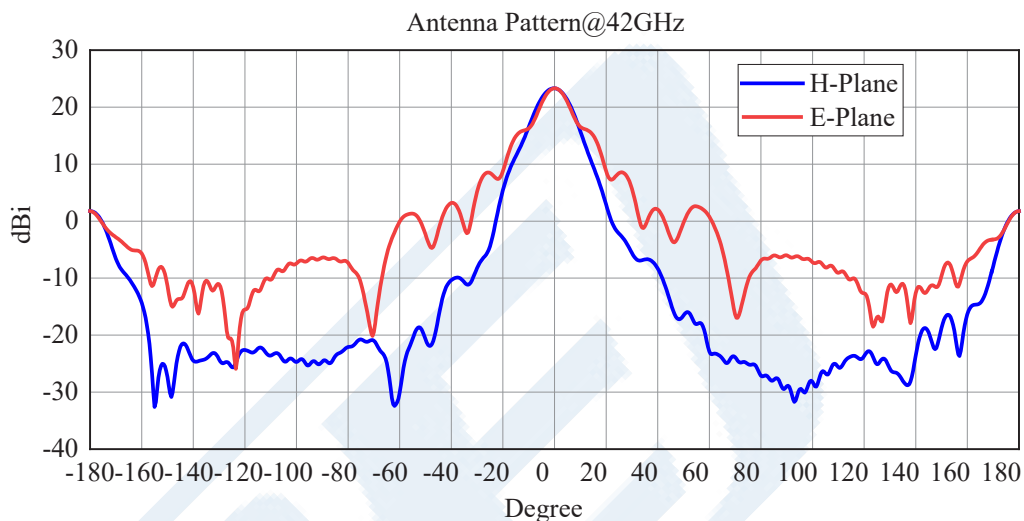
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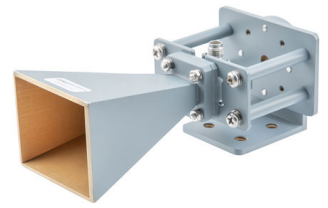
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Broadband Gain Horn Antenna, 18 GHz to 50 GHz 20 dBi Gain, 2.4mm Female Connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability 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 Gain Horn Antenna, 18 GHz to 50 GHz 20 dBi Gain, 2.4mm Female Connector PEWAN1156](https://www.pasternack.com/waveguide-horn-antenna-50-ghz-20-dbi-2.4mm-female-pewan1156-p.aspx)

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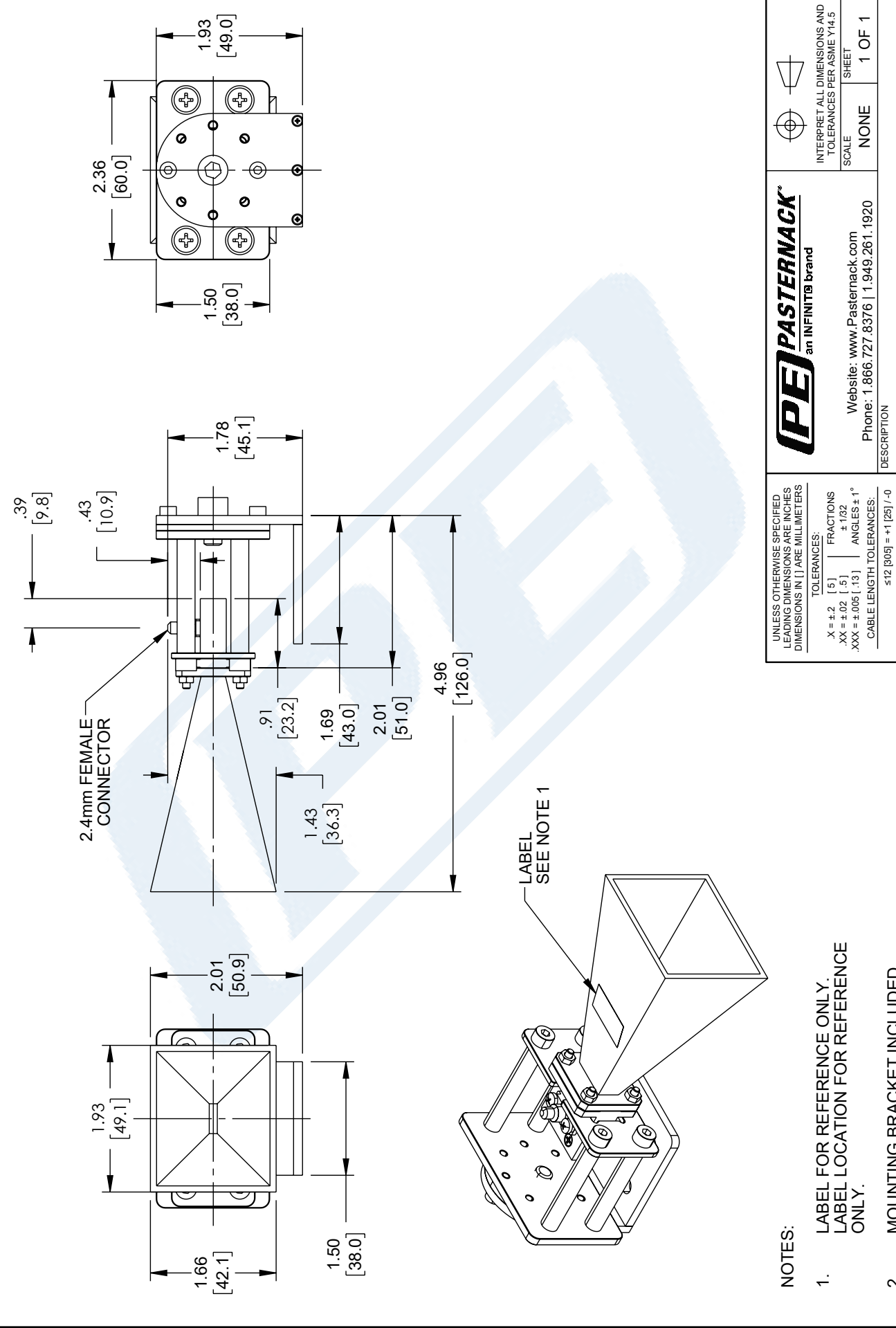
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

# PEWAN1156 CAD Drawing

Broadband Gain Horn Antenna, 18 GHz to 50 GHz 20 dBi Gain, 2.4mm Female Connector

F E D C B A

F E D C B A



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

| REVISION | 1 | 2 | 3 | 4 | 5 | 6 |
|----------|---|---|---|---|---|---|
|----------|---|---|---|---|---|---|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                    |                                                                                                     |                                                                                                                          |                                                                                         |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------|
| <p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <p>X = ±.2 [5] FRACTIONS<br/>         .XX = ±.02 [.5] ±.132<br/>         .XXX = ±.005 [.13] ANGLES ± 1°</p> <p>CABLE LENGTH TOLERANCES:</p> <p>≤12 [305] = ±1 [25] / -0<br/>         &gt;12 [305] ≤ 60 [1524] = +2 [51] / -0<br/>         &gt;60 [1524] ≤ 120 [3048] = +4 [102] / -0<br/>         &gt;120 [3048] ≤ 300 [7620] = +6 [152] / -0<br/>         &gt;300 [7620] = +5% / -0</p> <p>ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE</p> | <p>PE PASTERNAK®<br/>an INFINITI® brand</p> <p>Website: www.Pasternack.com<br/>         Phone: 1.866.727.8376   1.949.261.1920</p> | <p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE NONE</p> <p>SHEET 1 OF 1</p> | <p>DESCRIPTION</p> <p>BROADBAND GAIN HORN ANTENNA, 18 GHZ TO 50 GHZ<br/>         20 DBI GAIN, 2.4MM FEMALE CONNECTOR</p> | <p>SIZE A</p> <p>CAGE CODE 53919</p> <p>DRAWN BY KGLEBOVA</p> <p>ITEM NO. PEWAN1156</p> | <p>REV B</p> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                    |                                                                                                     |                                                                                                                          |                                                                                         |              |

NOTES:

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

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