



## WR-75 Waveguide Standard Gain Horn Antenna Operating From 10 GHz to 15 GHz With a Nominal 15 dBi Gain With Square Cover Flange

### Gain Horns Technical Data Sheet

PE9855-15

#### Features

- Rectangular Waveguide Interface
- 10 GHz to 15 GHz
- 15 dBi Nominal Gain
- Square Cover Flange

#### Applications

- Antenna Measurements
- Laboratory Use
- Wireless Communication
- Microwave Radio Systems

#### Description

Pasternack's PE9855-15 WR-75 waveguide standard gain horn antenna operating from 10 GHz to 15 GHz with a nominal 15 dBi gain is part of our full line of RF components available for same-day shipping. This Pasternack pyramidal horn antenna has a lightweight anodized aluminum body and a precision tolerance square cover flange. The PE9855-15 WR-75 waveguide standard gain horn antenna offers low gain variation across its operating frequency range, 35.4 degrees of vertical half power beam width and 28.5 degrees of horizontal half power beam width.

Waveguide standard gain horn antennas are used in a wide variety of applications due to their high power handling capability, low loss, high directivity, and near constant electrical performance across a broad bandwidth. Pasternack's WR-75 standard gain horns are available in 10, 15 and 20 dB models with pyramidal shape and rectangular waveguide input.

#### Configuration

Design	WR-75 Standard Gain Horn
Pattern	Directional
Polarization	Linear

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	10		15	GHz
Nominal Gain		15		dBi
Horizontal Half Power Beam Width		28.5		Degrees
Vertical Half Power Beam Width		35.4		Degrees

Electrical Specification Notes:  
 Half power beam width is calculated by computer simulation.

#### Mechanical Specifications

<b>Size</b>	
Length	4.69 in [119.13 mm]
Width	2.362 in [59.99 mm]
Height	1.5 in [38.1 mm]
Weight	0.208 lbs [94.35 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-75 Waveguide Standard Gain Horn Antenna Operating From 10 GHz to 15 GHz With a Nominal 15 dBi Gain With Square Cover Flange PE9855-15](#)



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**Waveguide Interface**

Waveguide Size  
Flange Type  
Body Material and Plating

WR-75  
Square Cover  
Anodized Aluminum, Paint

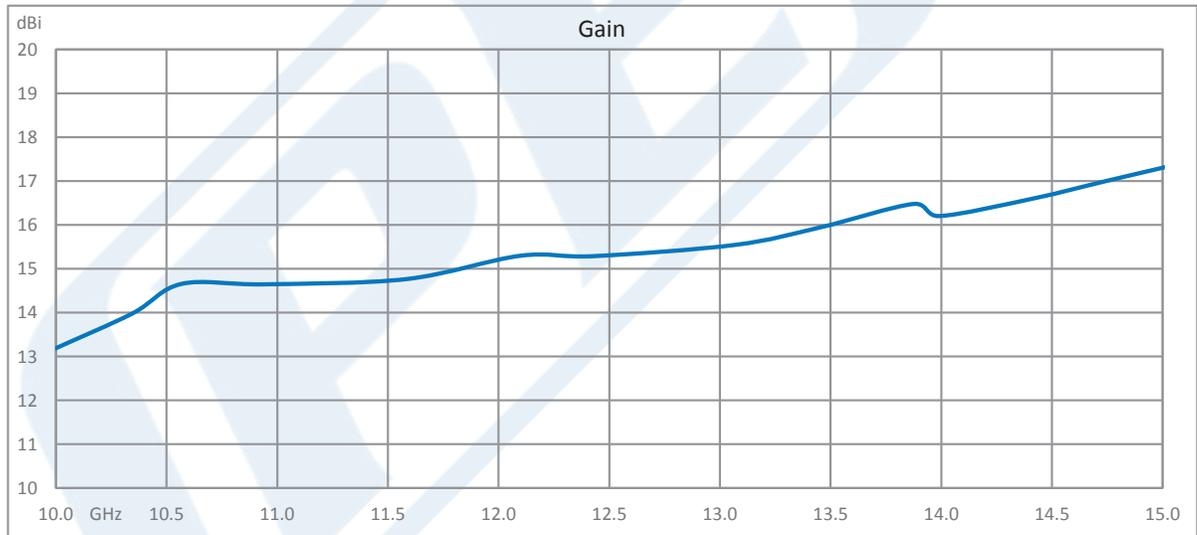
**Environmental Specifications**

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

**Plotted and Other Data**

Notes:

**Typical Performance Data**



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WR-75 Waveguide Standard Gain Horn Antenna Operating From 10 GHz to 15 GHz With a Nominal 15 dBi Gain With Square Cover Flange 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.

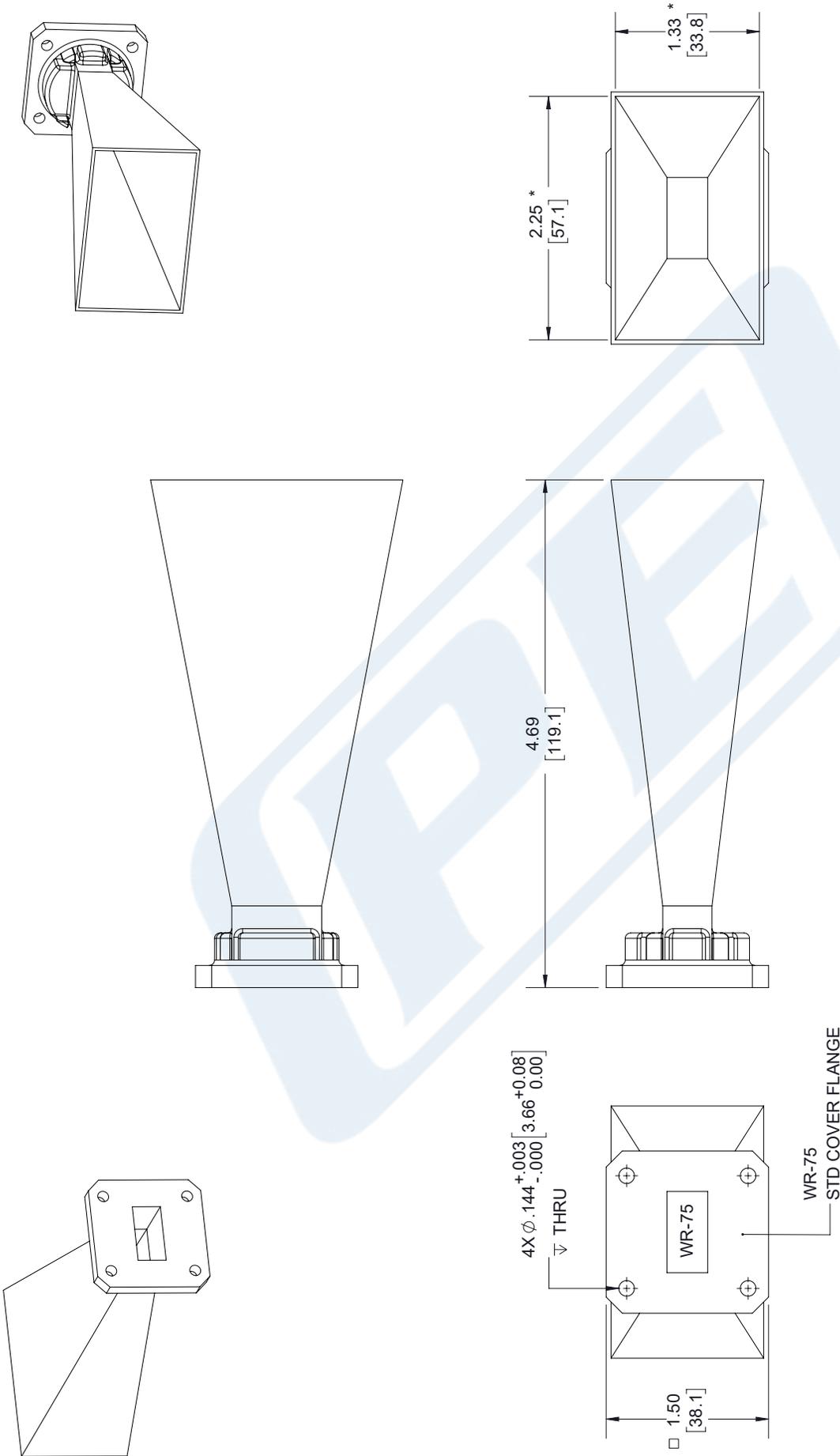
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URL: <https://www.pasternack.com/standard-gain-horn-waveguide-size-wr75-pe9855-15-p.aspx>

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.

# PE9855-15 CAD Drawing

WR-75 Waveguide Standard Gain Horn Antenna Operating From 10 GHz to 15 GHz With a Nominal 15 dBi Gain With Square Cover Flange



STANDARD TOLERANCES	
.X	±0.2
.XX	±0.03
.XXX	±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

\* INSIDE DIMENSION

<p><b>PE PASTERNAK®</b> THE ENGINEER'S RF SOURCE Pasternack Enterprises, Inc. P.O. Box 16759   Irvine   CA   92623 Phone: (949) 261-1920   Fax: (949) 261-7451 Website: www.pasternack.com   E-Mail: sales@pasternack.com</p>	<p>DWG TITLE <b>PE9855-15</b></p>		<p>NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME 3. DIMENSIONS ARE IN INCHES [mm].</p>	
	<p>CAGE CODE <b>53919</b></p>	<p>CAD FILE 111517</p>	<p>SCALE N/A</p>	<p>SIZE A</p>