

WR-90 Waveguide Standard Gain Horn Antenna Operating From 8.2 GHz to 12.4 GHz With a Nominal 15 dBi Gain With UG-135/U Square Cover Flange



Gain Horns Technical Data Sheet

PE9856-15

Features

- Rectangular Waveguide Interface
- 8.2 GHz to 12.4 GHz

- 15 dBi Nominal Gain
- UG-135/U Square Cover Flange

Applications

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

Description

Pasternack's PE9856-15 WR-90 waveguide standard gain horn antenna operating from 8.2 GHz to 12.4 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 UG-135/U square cover flange. The PE9856-15 WR-90 waveguide standard gain horn antenna offers low gain variation across its operating frequency range and 29.3 degrees of 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-90 standard gain horns are available in 10, 15 and 20 dB models with pyramidal shape and rectangular waveguide input.

Configuration

Design WR-90 Standard Gain Horn

Pattern Directional Polarization Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	8.2		12.4	GHz
Nominal Gain		15		dBi
Horizontal Half Power Beam Width		29		Degrees
Vertical Half Power Beam Width		29.3		Degrees
Vertical Half Power Beam Width		29.3		Deg

Electrical Specification Notes:

Half power beam width is calculated by computer simulation.

Mechanical Specifications

Size

 Length
 5.45 in [138.43 mm]

 Width
 2.8 in [71.12 mm]

 Height
 2.05 in [52.07 mm]

 Weight
 0.254 lbs [115.21 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-90 Waveguide Standard Gain Horn Antenna Operating From 8.2 GHz to 12.4 GHz With a Nominal 15 dBi Gain With UG-135/U Square Cover Flange PE9856-15

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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Waveguide Interface

Waveguide Size Flange Type Flange Designation Body Material and Plating WR-90 Square Cover UG-135/U 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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URL: https://www.pasternack.com/standard-gain-horn-waveguide-size-wr90-pe9856-15-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.

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PE9856-15 CAD Drawing

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