

WR-159 Waveguide Standard Gain Horn Antenna Operating from 4.9 GHz to 7.05 GHz with a Nominal 15 dBi Gain with UG-1731/U Square Cover Flange



# **Waveguide Antennas Technical Data Sheet**

PE9860-15

#### **Features**

- · Rectangular Waveguide Interface
- 4.9 GHz to 7.05 GHz

- 15 dBi Nominal Gain
- UG-1731/U Flange

## **Applications**

- · Antenna Measurements
- · Wireless Communication

- Laboratory Use
- Microwave Radio Systems

### Description

Pasternack's PE9860-15 WR-159 waveguide standard gain horn antenna operating from 4.9 GHz to 7.05 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-1731/U flange. The PE9860-15 WR-159 waveguide standard gain horn antenna offers low gain variation across its operating frequency range and 31.3 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-159 standard gain horns are available in 10, 15 and 20 dB models with pyramidal shape and rectangular waveguide input.

#### Configuration

Design WR-159 Standard Gain Horn Pattern Directional

Polarization Linear

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	4.9		7.05	GHz
Nominal Gain		15		dBi
Horizontal Half Power Beam Width		30.8		Degrees
Vertical Half Power Beam Width		31.3		Degrees

**Electrical Specification Notes:** 

Half power beam width is calculated by computer simulation.

#### **Mechanical Specifications**

Size

 Length
 8 in [203.2 mm]

 Width
 4.43 in [112.52 mm]

 Height
 3.27 in [83.06 mm]

 Weight
 1.073 lbs [486.7 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-159 Waveguide Standard Gain Horn Antenna Operating from 4.9 GHz to 7.05 GHz with a Nominal 15 dBi Gain with UG-1731/U Square Cover Flange PE9860-15

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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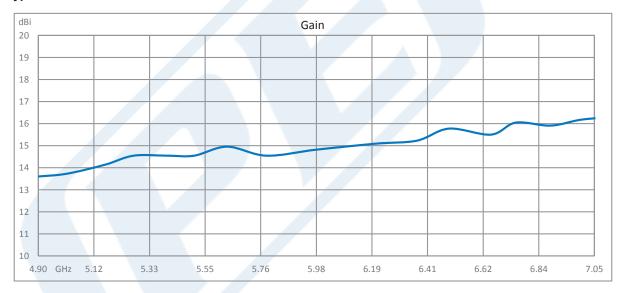
Waveguide Interface

Waveguide Size Flange Type Flange Designation Body Material and Plating WR-159 Square Cover UG-1731/U Anodized Aluminum, Paint

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

#### **Typical Performance Data**



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URL: https://www.pasternack.com/standard-gain-horn-waveguide-size-wr159-pe9860-15-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.

**PE9860-15 CAD Drawing**WR-159 Waveguide Standard Gain Horn Antenna Operating from 4.9 GHz to 7.05 GHz with a Nominal 15 dBi Gain with UG-1731/U Square Cover Flange

