

## WR-112 Waveguide Standard Gain Horn Antenna Operating from 7.05 GHz to 10 GHz with a Nominal 10 dBi Gain with Square Cover Flange



## Waveguide Antennas Technical Data Sheet

PE9858-10

#### **Features**

- Rectangular Waveguide Interface
- 7.05 GHz to 10 GHz

- 10 dBi Nominal Gain
- Square Cover Flange

## **Applications**

- Antenna Measurements
- Wireless Communication

- Laboratory Use
- Microwave Radio Systems

### Description

Pasternack's PE9858-10 WR-112 waveguide standard gain horn antenna operating from 7.05 GHz to 10 GHz with a nominal 10 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 PE9858-10 WR-112 waveguide standard gain horn antenna offers low gain variation across its operating frequency range and 56.8 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-112 standard gain horns are available in 10, 15 and 20 dB models with pyramidal shape and rectangular waveguide input.

#### Configuration

Design

Pattern Polarization WR-112 Standard Gain Horn

Directional Linear

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	7.05		10	GHz
Nominal Gain		10		dBi
Horizontal Half Power Beam Width		55.2		Degrees
Vertical Half Power Beam Width		56.8		Degrees

**Electrical Specification Notes:** 

Half power beam width is calculated by computer simulation.

#### **Mechanical Specifications**

Size

 Length
 2.55 in [64.77 mm]

 Width
 1.875 in [47.63 mm]

 Height
 1.875 in [47.63 mm]

 Weight
 0.186 lbs [84.37 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-112 Waveguide Standard Gain Horn Antenna Operating from 7.05 GHz to 10 GHz with a Nominal 10 dBi Gain with Square Cover Flange PE9858-10

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 Body Material and Plating WR-112 Square Cover Anodized Aluminum, Paint

Compliance Certifications (see product page for current document)

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

WR-112 Waveguide Standard Gain Horn Antenna Operating from 7.05 GHz to 10 GHz with a Nominal 10 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-112 Waveguide Standard Gain Horn Antenna Operating from 7.05 GHz to 10 GHz with a Nominal 10 dBi Gain with Square Cover Flange PE9858-10

URL: https://www.pasternack.com/standard-gain-horn-waveguide-size-wr112-pe9858-10-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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PE9858-10 CAD Drawing
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