

## WR-28 Waveguide Standard Gain Horn Antenna Operating From 26.5 GHz to 40 GHz With a Nominal 25 dBi Gain With UG-599/U Square Cover Flange



### PE9850B-25

#### Features

- WR-28 Rectangular Waveguide Interface
- 26.5 GHz to 40 GHz
- 25 dBi Nominal Gain
- UG-599/U Square Cover Flange

#### Applications

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

#### Description

Pasternack's PE9850B-25 WR-28 waveguide horn is also known as a waveguide horn antenna. This WR-28 standard gain horn waveguide antenna has a nominal gain of 25 dBi. Our waveguide horn can operate at frequencies ranging from 26.5 to 40 GHz. The standard gain horn antenna has a typical VSWR of 1.5:1 and is suitable for test and measurement industries. This 25 dBi waveguide horn from Pasternack has an overall length of 7.16 inches, a width of 3.12 inches, and a weight of 0.5 lbs. Our WR-28 waveguide horn antenna has a typical vertical beam width of 8 degrees and a horizontal beam width of 8 degrees at 3 dB.

Our antenna comes with a UG-599/U square cover flange and is built to precise microwave and millimeter wave horn antenna design specifications. This WR-28 standard gain horn antenna has an aluminum body. Additional dimensions and specifications for this antenna are on our downloadable PDF datasheet.

This WR-28 waveguide horn antenna with 25 dBi gain is part of over one million RF, microwave, and millimeter wave components available from Pasternack. Our horn antenna can ship worldwide on the same business day as it is purchased with our other available RF parts. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the ideal waveguide horn that meets your requirements.

#### Configuration

|         |                          |
|---------|--------------------------|
| Design  | WR-28 Standard Gain Horn |
| Pattern | Directional              |

#### Electrical Specifications

| Description                      | Minimum | Typical | Maximum | Units   |
|----------------------------------|---------|---------|---------|---------|
| Frequency Range                  | 26.5    |         | 40      | GHz     |
| Nominal Gain                     |         | 25      |         | dBi     |
| Horizontal Half Power Beam Width |         | 8       |         | Degrees |
| Vertical Half Power Beam Width   |         | 8       |         |         |
| VSWR                             |         | 1.5:1   |         |         |

#### Mechanical Specifications

|             |                     |
|-------------|---------------------|
| <b>Size</b> |                     |
| Length      | 7.16 in [181.86 mm] |
| Width       | 3.12 in [79.25 mm]  |
| Height      | 2.62 in [66.55 mm]  |
| Weight      | 0.35 lbs [158.76 g] |

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### Waveguide Interface

|                           |                 |
|---------------------------|-----------------|
| Waveguide Size            | WR-28           |
| Flange Type               | Square Cover    |
| Flange Designation        | UG-599/U        |
| Body Material and Plating | Aluminum, Paint |

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

### Plotted and Other Data

Notes:

WR-28 Waveguide Standard Gain Horn Antenna  
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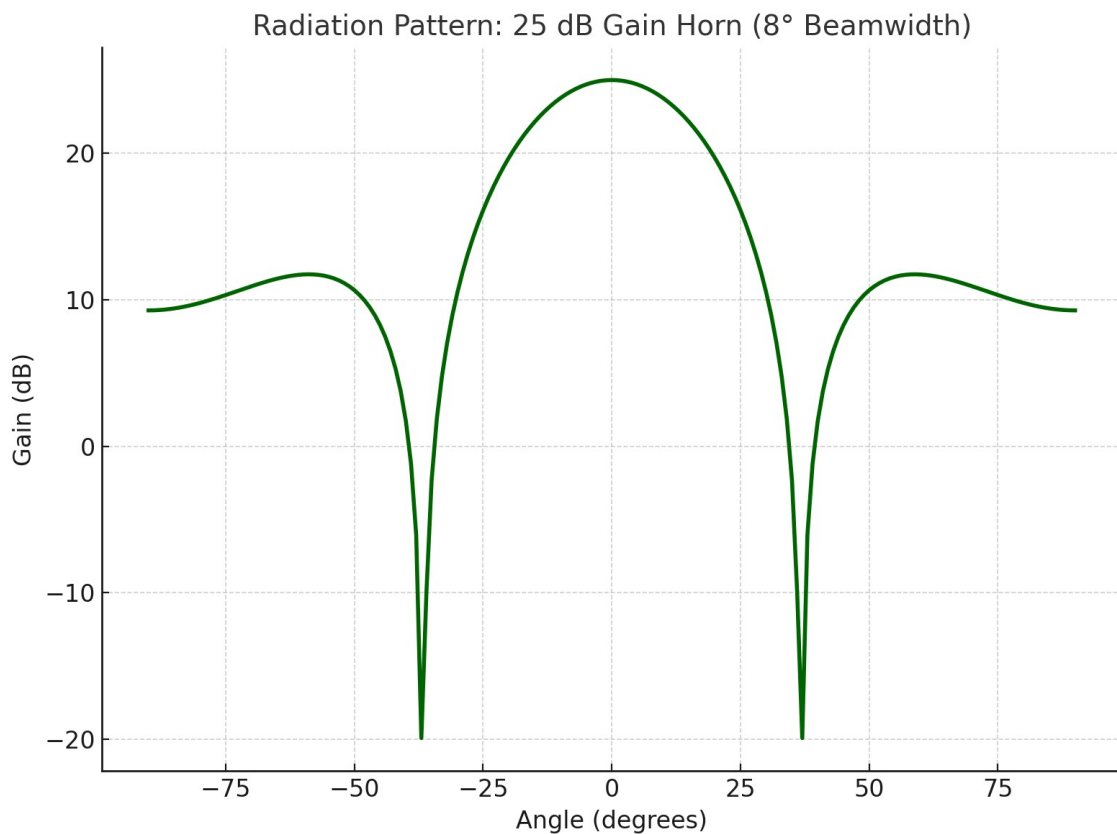


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### Typical Performance Data

## 25 dB STANDARD GAIN HORN

### Typical Radiation Pattern



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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-28 Waveguide Standard Gain Horn Antenna Operating From 26.5 GHz to 40 GHz With a Nominal 25 dBi Gain With UG-599/U Square Cover Flange PE9850B-25](https://www.pasternack.com/wr-28-waveguide-gain-horn-antenna-25dbi-ug-599-square-flange-pe9850b-25-p.aspx)

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The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE9850B-25 CAD Drawing

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