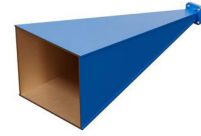


WR-28 Waveguide Standard Gain Horn Antenna Operating From 26.5 GHz to 40 GHz With a Nominal 25 dBi Gain With UG-599/U Square Cover Flange



FM9850B-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
- Wireless Communication
- Laboratory Use
- Microwave Radio System

Description

Fairview Microwave's FM9850B-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 Fairview Microwave 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 Fairview Microwave. 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 |

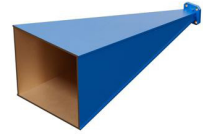
Electrical Specifications

| 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

| | |
|-------------|---------------------|
| Size | |
| Length | 7.16 in [181.86 mm] |
| Width | 3.12 in [79.25 mm] |
| Height | 2.62 in [66.55 mm] |
| Weight | 0.5 lbs [226.8 g] |

WR-28 Waveguide Standard Gain Horn Antenna
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25 dBi Gain With UG-599/U Square Cover Flange



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Waveguide Interface

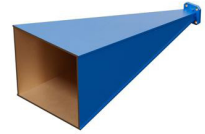
| | |
|---------------------------|-----------------|
| Waveguide Size | WR-28 |
| Flange Type | Square Cover |
| Flange Designation | UG-599/U |
| Body Material and Plating | Aluminum, Paint |

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

Plotted and Other Data

Notes:

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

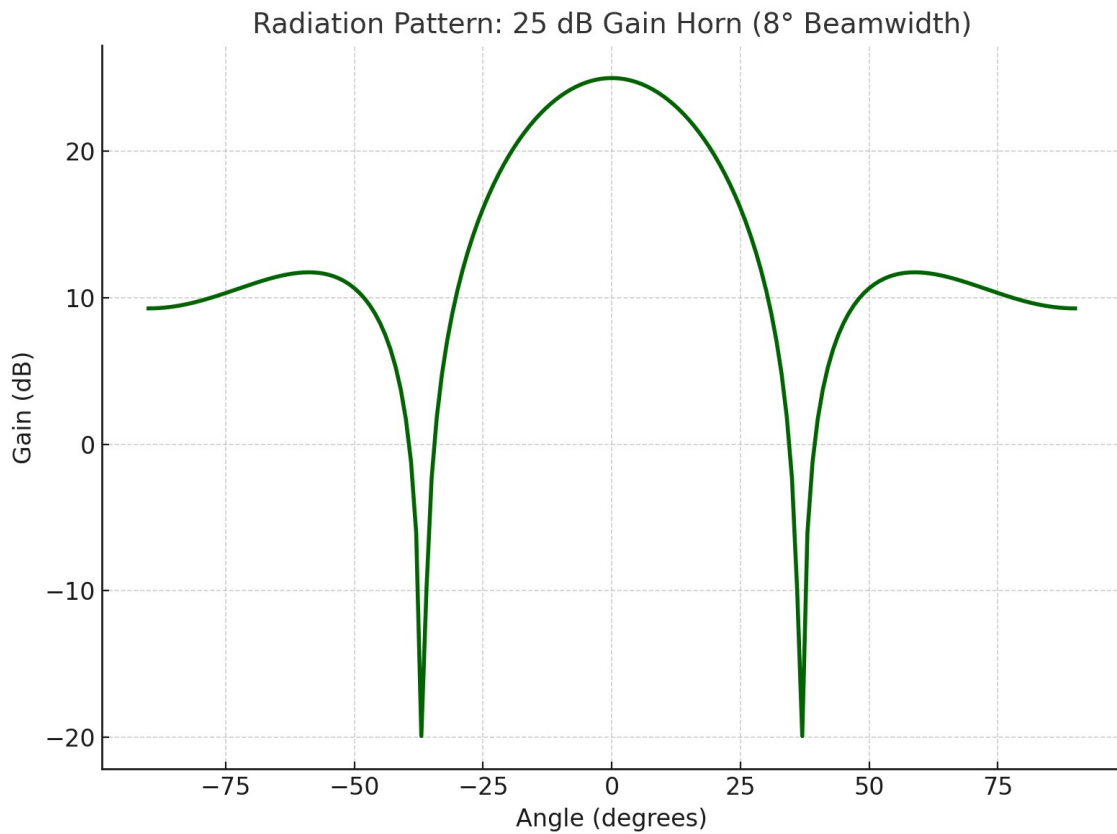


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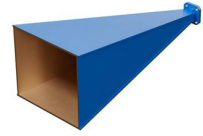
Typical Performance Data

25 dB STANDARD GAIN HORN

Typical Radiation Pattern



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



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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 from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

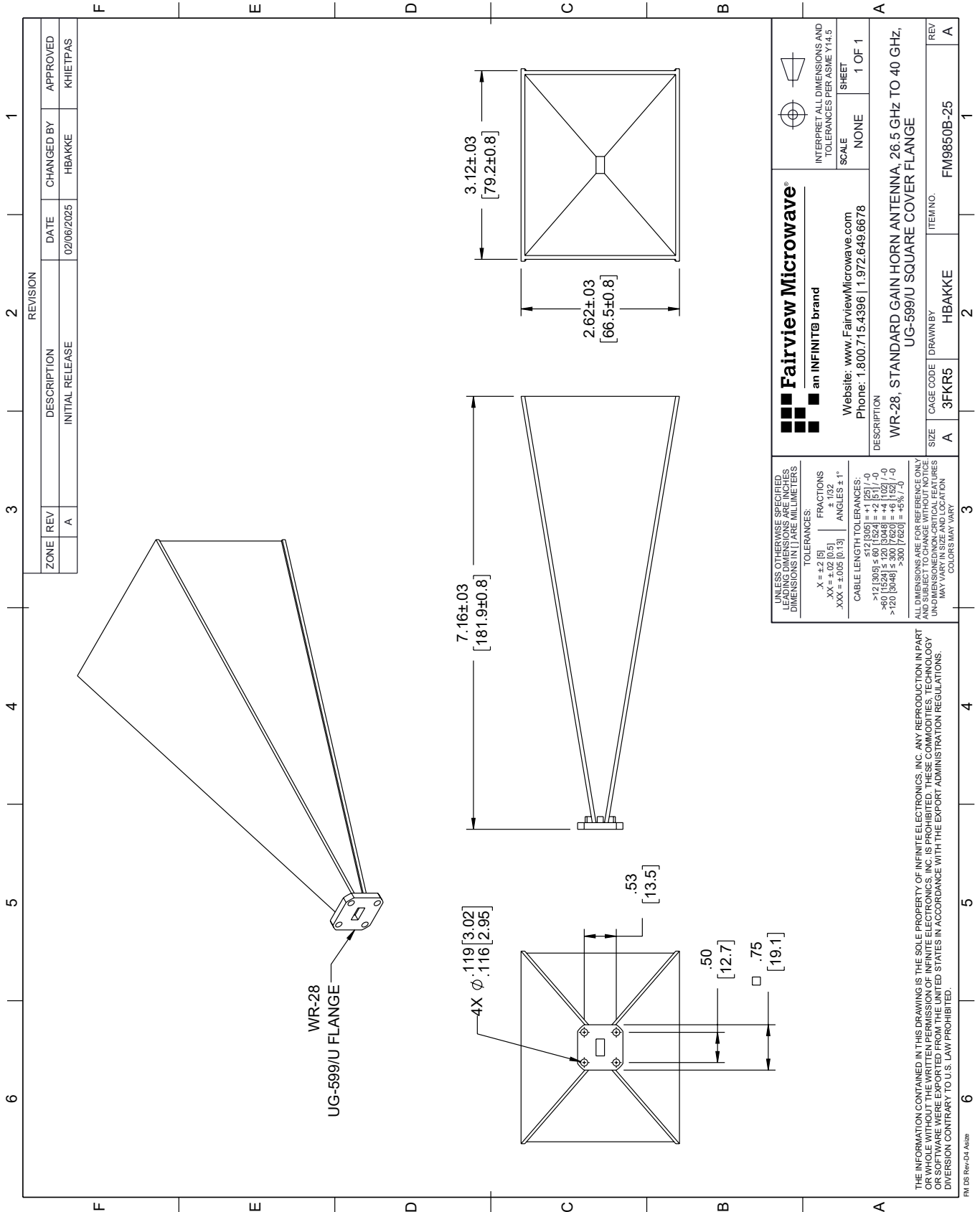
For additional information on this product, please click the following link: [WR-28 Waveguide Standard Gain Horn Antenna Operating From 26.5 GHz to 40 GHz With a Nominal 25 dBi Gain With UG-599/U Square Cover Flange FM9850B-25](https://www.fairviewmicrowave.com/wr-28-waveguide-standard-gain-horn-25-dbi-ug-599-fm9850b-25-p.aspx)

URL: <https://www.fairviewmicrowave.com/wr-28-waveguide-standard-gain-horn-25-dbi-ug-599-fm9850b-25-p.aspx>

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FM9850B-25 CAD Drawing

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



| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|------|-----|-----------------|------------|------------|----------|
| | A | INITIAL RELEASE | 02/06/2025 | HBAKKE | KHIEPPAS |

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Phone: 1.800.715.4396 | 1.972.649.6678

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
SCALE: NONE
SHEET: 1 OF 1

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [] ARE IN MILLIMETERS.
TOLERANCES:
.X = ±.2 [5] FRACTIONS ± 1/32
.XX = ±.02 [0.5] ANGLES ± 1°
.XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:
>12 [305] ≤ 60 [1524] = ±.1 [25] / -0
>60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
>120 [3048] ≤ 300 [7620] = ±.8 [20] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [] ARE IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [] ARE IN MILLIMETERS. COLORS MAY VARY.

DESCRIPTION: WR-28, STANDARD GAIN HORN ANTENNA, 26.5 GHz TO 40 GHz, UG-599/U SQUARE COVER FLANGE

SIZE: A CAGE CODE: 3FKR5 DRAWN BY: HBAKKE ITEM NO.: FM9850B-25

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FM 08 Rev-D4 Alt2b