

## WR-284 Standard Gain Horn with 10 dBi gain, N Female Connector, Integrated Cage-Style Mount



### FM1WAN284-10NF

#### Features

- 2.6 GHz to 3.95 GHz
- WR-284 Waveguide Band
- 10 dBi Nominal Gain
- N Female Connector
- Ruggedized Aluminum Cage-Style Mount

#### Applications

- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems
- Radome Testing
- Automotive Antenna Test Solutions
- Radar Cross Section
- Satellite Antenna Testing

#### Description

The FM1WAN284-10NF standard gain horn antenna (also known as waveguide horn) from Fairview Microwave is part of our comprehensive selection of waveguide antennas. The cage-style mount is a ruggedized aluminum mounting solution that integrates with test and measurement positioning systems, ensuring precise alignment and protection of the antenna. This standard gain horn is mated with a WR-284 to N Female waveguide to coaxial adapter and operates from 2.6 GHz to 3.95 GHz.

Our FM1WAN284-10NF standard gain horn antenna with integrated cage-style mount has a nominal gain of 10 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 52.1 dB and 51.6 dB respectively. Fairview Microwave's N Female to WR-284 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FM1WAN284-10NF are used in a wide variety of applications due to the high-power handling capability, low loss, high directivity, and near constant electrical performance. Our WR-284 waveguide antennas with N Female interface is part of over 40,000 RF, microwave and millimeter wave components from Fairview Microwave available worldwide and ship same day.

#### Configuration

|                   |          |
|-------------------|----------|
| Design            | WR-284   |
| Coaxial Interface | N Female |

#### Electrical Specifications

| Description                         | Minimum | Typical | Maximum | Units   |
|-------------------------------------|---------|---------|---------|---------|
| Frequency Range                     | 2.6     |         | 3.95    | GHz     |
| Gain                                |         | 10      |         |         |
| Horizontal Half Power Beam Width    |         | 52.1    |         | Degrees |
| Vertical Half Power Beam Width      |         | 51.6    |         | Degrees |
| <b>Waveguide to Coaxial Adapter</b> |         |         |         |         |
| VSWR                                |         |         | 1.3:1   |         |

#### Mechanical Specifications

|             |                      |
|-------------|----------------------|
| <b>Size</b> |                      |
| Length      | 10.62 in [269.75 mm] |
| Width       | 5.71 in [145.03 mm]  |
| Height      | 7.26 in [184.4 mm]   |
| Weight      | 4.58 lbs [2.08 kg]   |

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### RF Connector

Type N Female

### Waveguide Interface

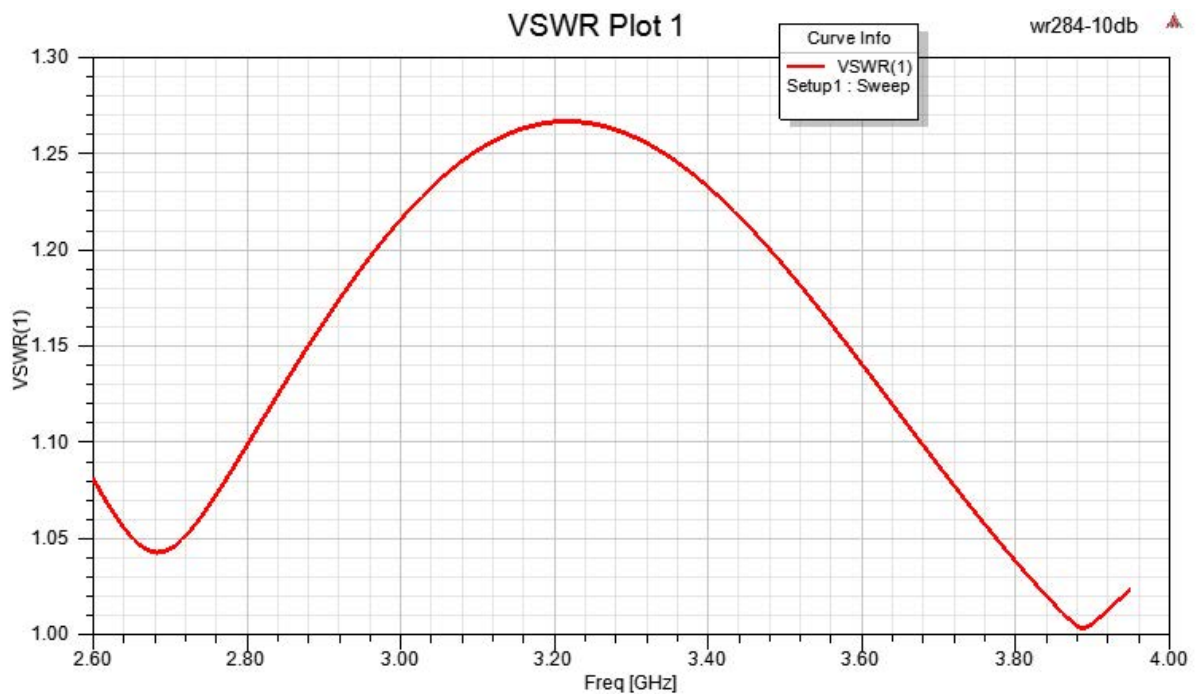
Waveguide Size WR-284

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

### Plotted and Other Data

Notes:

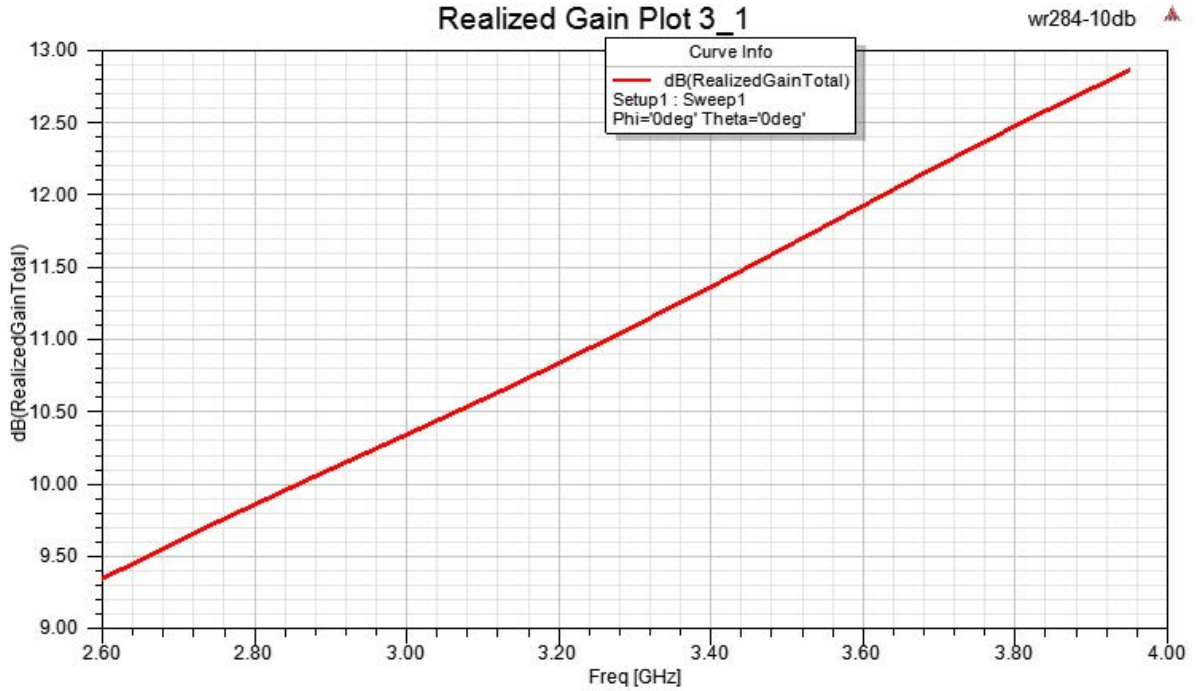
### Typical Performance Data



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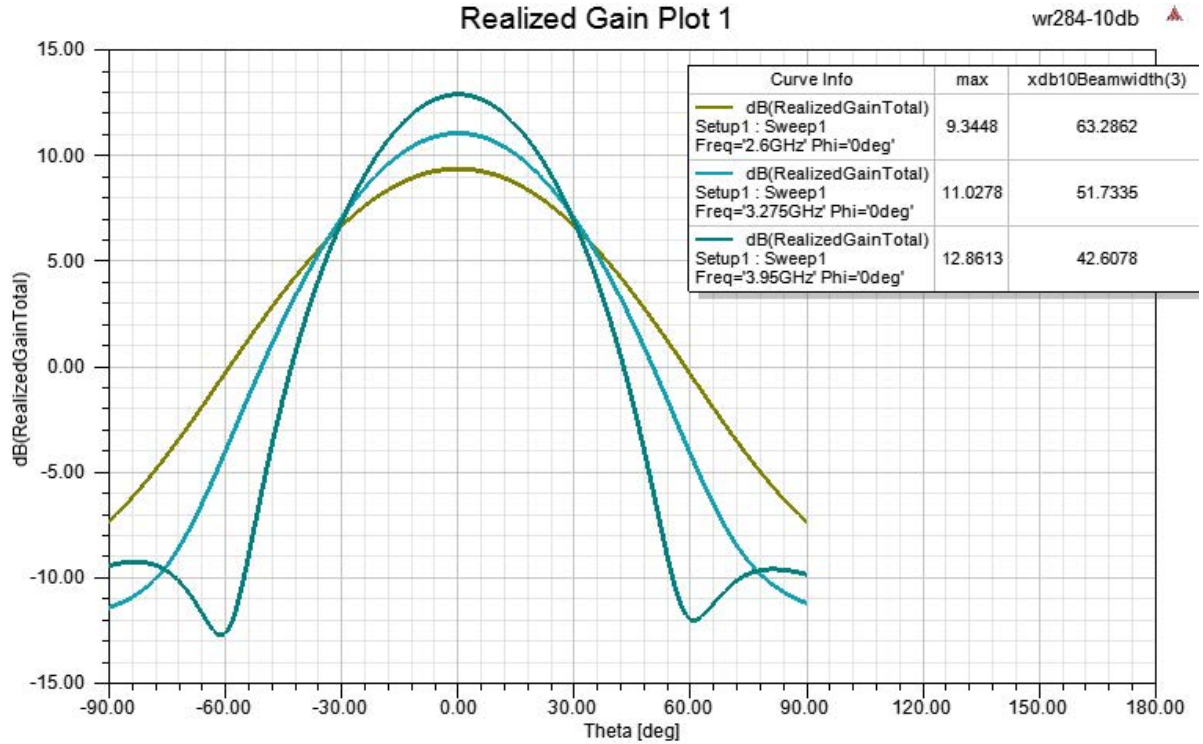
**FM1WAN284-10NF**



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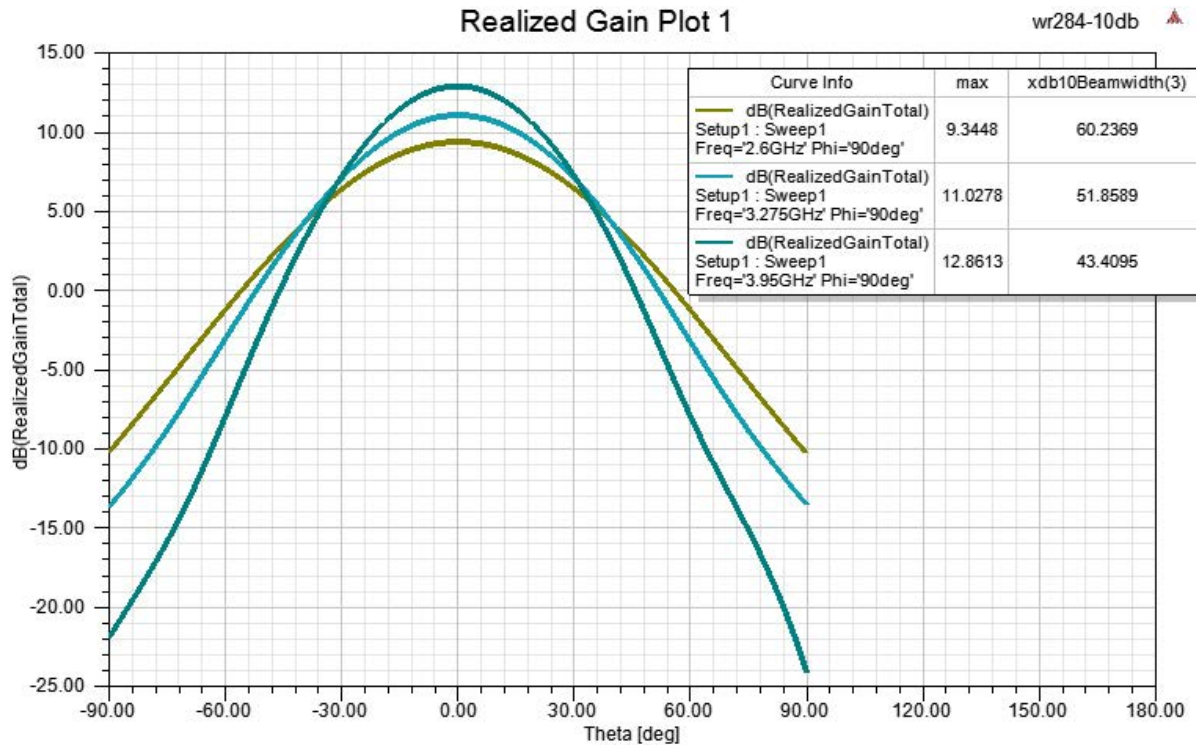
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WR-284 Standard Gain Horn with 10 dBi gain, N Female Connector, Integrated Cage-Style Mount from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-284 Standard Gain Horn with 10 dBi gain, N Female Connector, Integrated Cage-Style Mount FM1WAN284-10NF](#)

URL: <https://www.fairviewmicrowave.com/wr-284-standard-gain-horn-10-dbi-n-fm1wan284-10nf-p.aspx>

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