

# FMWAN159-10 DATA SHEET

# WR-159 Standard Gain Horn Antenna Operating From 4.9 GHz to 7.05 GHz, 10 dBi Nominal Gain, ? Flange

The FMWAN159-10 standard gain horn antenna (also known as waveguide horn) from Fairview Microwave has a nominal gain of 10 dBi. The Fairview Microwave 10 dBi WR-159 horn antenna operates from 4.9 GHz to 7.05 GHz (C Band). This WR-159 standard gain horn has a CMR-159 type flange. 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. These units are Aluminum and Powder coated for increased resistance to weather and corrosion with a Horizontal and Vertical Beam Width of 52.1 and 51.6 degrees respectively. Fairview Microwave's WR-159 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. C Band standard gain horn antenna can ship the same day to anywhere in the world. The WR-159 FMWAN159-10 waveguide horn is part of over 40,000 RF, microwave and millimeter wave components available from Fairview Microwave.

### Configuration

Design WR-159 Polarization Linear

#### **Electrical Specifications**

| Description               | Min | Тур   | Max  | Units |
|---------------------------|-----|-------|------|-------|
| Frequency Range           | 4.9 |       | 7.05 | GHz   |
| Nominal Gain              |     | 10    |      | dB    |
| Horizontal 3dB Beam Width | า   | 52.1  |      | Deg   |
| Vertical 3dB Beam Width   |     | 51.6  |      | Deg   |
| VSWR                      |     | 1.3:1 |      |       |

## **Mechanical Specifications**

#### Size

 Length
 3.15 in [80.01 mm]

 Width/Diameter
 2.417 in [61.39 mm]

 Height
 1.94 in [49.28 mm]

#### **Waveguide Interface**

Waveguide Size WR-159
Flange Type CMR-159
Body Material and Plating Aluminum, Gray

**Compliance Certifications** (see product page for current document)

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

Notes:



#### **Features:**

- WR-159 Rectangular Waveguide Interface
- 4.9 GHz to 7.05 GHz
- 10 dBi Nominal Gain
- CMR-159 Cover Flange
- C Band

# **Applications:**

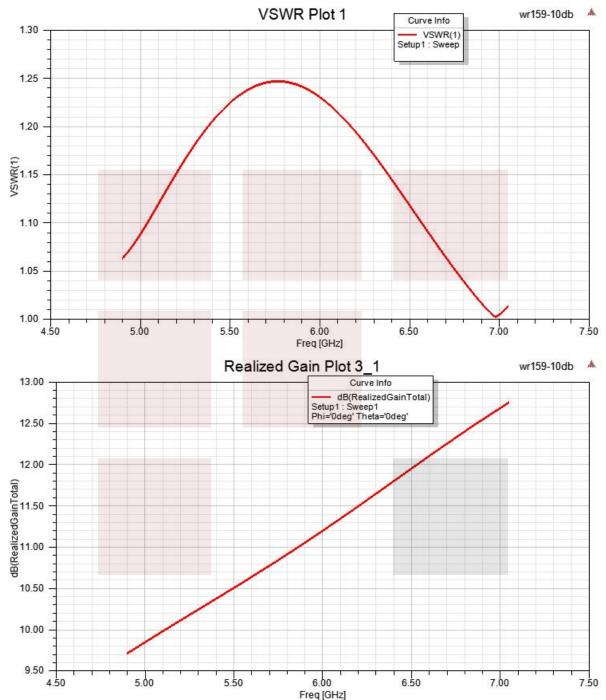
- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems

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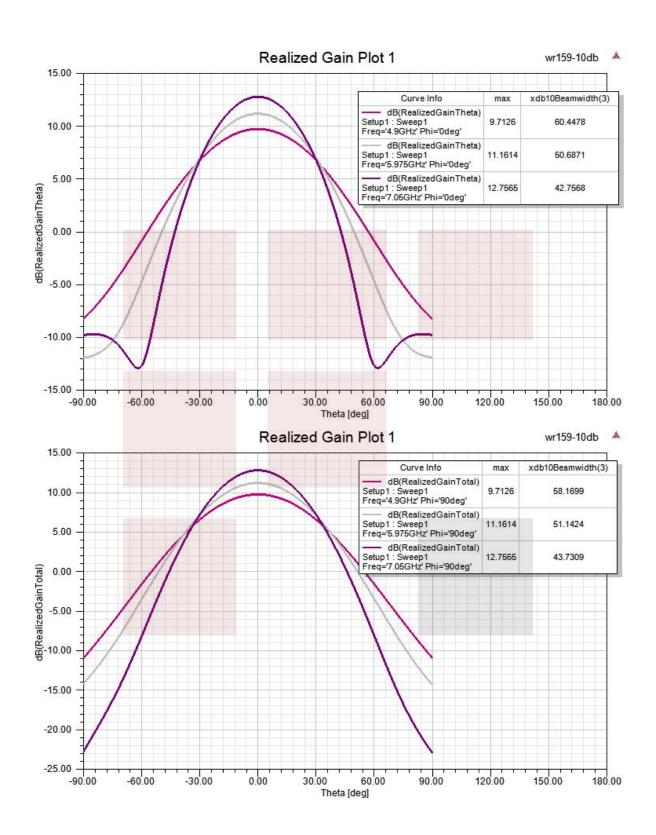


#### **Typical Performance Data**













WR-159 Standard Gain Horn Antenna Operating From 4.9 GHz to 7.05 GHz, 10 dBi Nominal Gain, ? 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-159 Standard Gain Horn Antenna Operating From 4.9 GHz to 7.05 GHz, 10 dBi Nominal Gain, ? Flange FMWAN159-10

URL: https://www.fairviewmicrowave.com/wr-159-waveguide-standard-gain-horn-10-db-none-fmwan159-10-p.aspx







