

FMWAN051-15SF DATA SHEET

WR-51 Standard Gain Horn with 15 dBi gain, SMA Female connector

The FMWAN051-15SF standard gain horn antenna (also known as waveguide horn) from Fairview Microwave is part of our comprehensive selection of waveguide antennas. This standard gain horn is mated with a WR-51 to SMA Female waveguide to coaxial adapter and operates from 15 GHz to 22 GHz.

Our FMWAN051-15SF standard gain horn antenna has a nominal gain of 15 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 32 dB and 32 dB respectively. Fairview Microwave's SMA Female to WR-51 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FMWAN051-15SF 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-51 waveguide antennas with SMA 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-51 Standard Gain Horn

Coaxial Interface SMA Female

Electrical Specifications

| Description | Min | Тур | Max | Units |
|-----------------------|-------------------------|-----|---------|---------|
| Frequency Range | 15 | | 22 | GHz |
| Waveguide Standard | Gain Horn | | | |
| Gain | 15 | | dBi | |
| Horizontal 3dB Beam V | 32 | | Degrees | |
| Vertical 3dB Beam Wid | Vertical 3dB Beam Width | | | Degrees |
| Waveguide to Coaxial | Adapter | | | |
| Input VSWR | | | 1.25:1 | |
| | | | | |

Mechanical Specifications

Size

 Length
 3.199 in 81.25 mm

 Width/Diameter
 1.382 in 35.1 mm

 Height
 0.994 in 25.25 mm

 Weight
 0.173 lbs 78.47 g

RF Connector

Type SMA Female

Waveguide Interface

Waveguide Size WR-51

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Features:

- 15 GHz to 22 GHz
- WR-51 Waveguide Band
- 15 dBi Nominal Gain
- SMA Female Connector

Applications:

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

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678

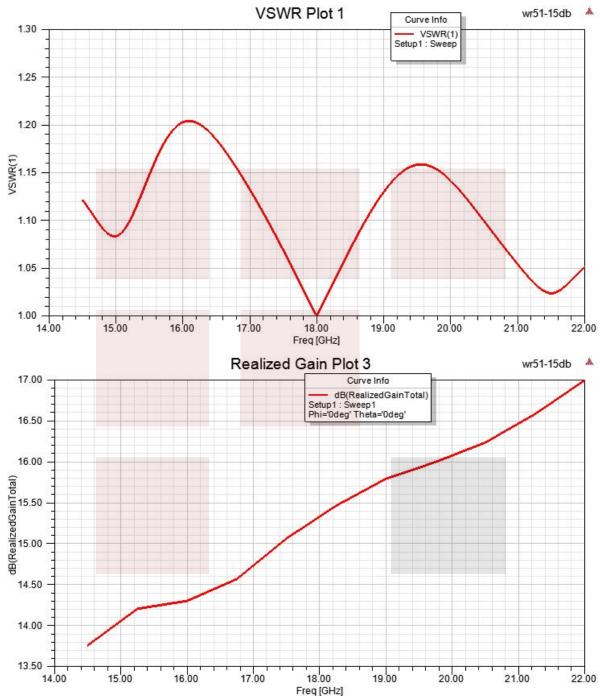
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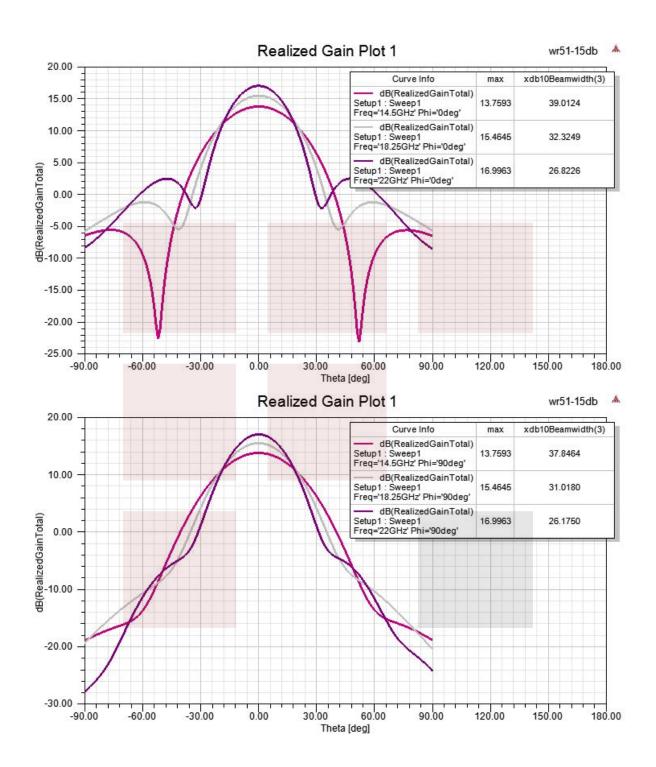


Typical Performance Data













WR-51 Standard Gain Horn with 15 dBi gain, SMA Female connector 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-51 Standard Gain Horn with 15 dBi gain, SMA Female connector FMWAN051-15SF

The information contained in this document is accurate to the best of our knowledge and representative of the part

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