

## FMWAN051-20 DATA SHEET

# WR-51 Standard Gain Horn Antenna Operating From 15 GHz to 22 GHz, 20 dBi Nominal Gain, square Flange

The FMWAN051-20 standard gain horn antenna (also known as waveguide horn) from Fairview Microwave has a nominal gain of 20 dBi. The Fairview Microwave 20 dBi WR-51 horn antenna operates from 15 GHz to 22 GHz (Ku-K Band). This WR-51 standard gain horn has a Square Cover 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 17.5 and 17.3 degrees respectively. Fairview Microwave's WR-51 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Ku-K Band standard gain horn antenna can ship the same day to anywhere in the world. The WR-51 FMWAN051-20 waveguide horn is part of over 40,000 RF, microwave and millimeter wave components available from Fairview Microwave.

## Configuration

Design WR-51 Polarization Linear

## **Electrical Specifications**

Description	Min	Тур	Max	Units
Frequency Range	15		22	GHz
Nominal Gain		20		dB
Horizontal 3dB Beam Width	า	17.5		Deg
Vertical 3dB Beam Width		17.3		Deg
VSWR		1.3:1		

## **Mechanical Specifications**

#### Size

 Length
 5.512 in [140 mm]

 Width/Diameter
 2.493 in [63.32 mm]

 Height
 1.85 in [46.99 mm]

 Weight
 0.2 lbs [90.72 g]

#### **Waveguide Interface**

Waveguide Size WR-51
Flange Type Square Cover
Body Material and Plating Aluminum, Gray

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

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

Notes:



## **Features:**

- WR-51 Rectangular
   Waveguide Interface
- 15 GHz to 22 GHz
- 20 dBi Nominal Gain
- Square Cover Cover Flange
- Ku-K Band

## **Applications:**

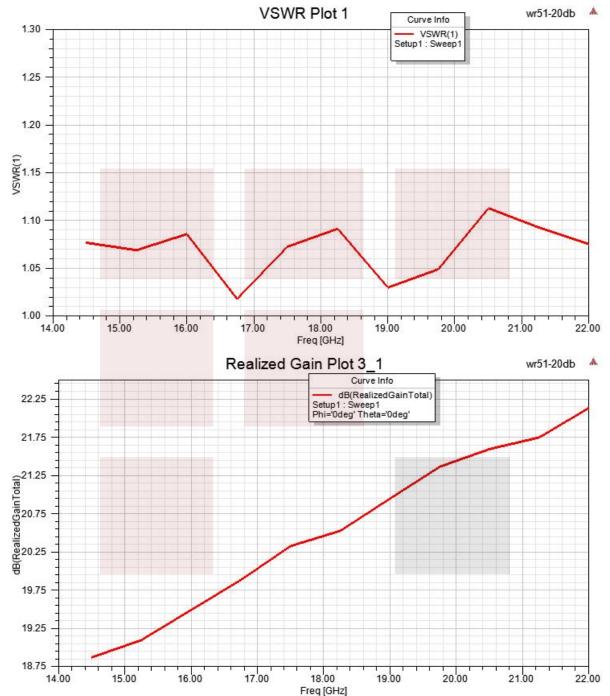
- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems

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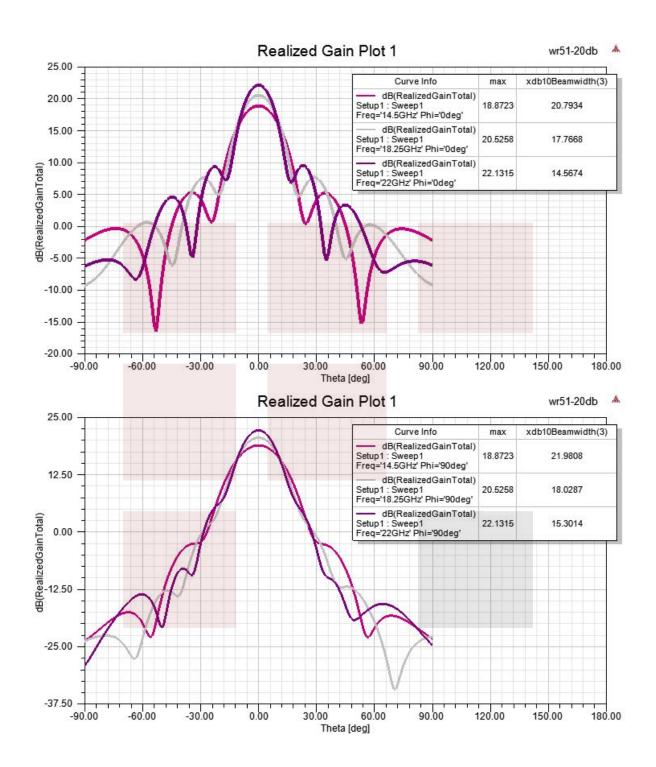


### **Typical Performance Data**













WR-51 Standard Gain Horn Antenna Operating From 15 GHz to 22 GHz, 20 dBi Nominal Gain, square 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-51 Standard Gain Horn Antenna Operating From 15 GHz to 22 GHz, 20 dBi Nominal Gain, square Flange FMWAN051-20

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

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