

# WR-51 Standard Gain Horn with 20 dBi gain, SMA Female connector

The FMWAN051-20SF 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 FMWAN051-20SF standard gain horn antenna has a nominal gain of 20 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 17.5 dB and 17.3 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 FMWAN051-20SF 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

Coaxial Interface

WR-51 Standard Gain Horn SMA Female

### **Electrical Specifications**

Description	Min	Тур	Мах	Units
Frequency Range	15		22	GHz
Waveguide Standard G	ain Horn			
Gain		20		dBi
Horizontal 3dB Beam Width		17.5		Degrees
Vertical 3dB Beam Width		17.3		Degrees
Waveguide to Coaxial	Adapter			
Input VSWR			1.25:1	

### **Mechanical Specifications**

Size Length Width/Diameter Height Weight	6.672 in 169.47 mm 2.493 in 63.32 mm 1.85 in 46.99 mm 0.323 lbs 146.51 g
<b>RF Connector</b> Type	SMA Female
<b>Waveguide Interface</b> Waveguide Size	WR-51

### **Environmental Specifications**

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

## FMWAN051-20SF DATA SHEET



### **Features:**

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

### **Applications:**

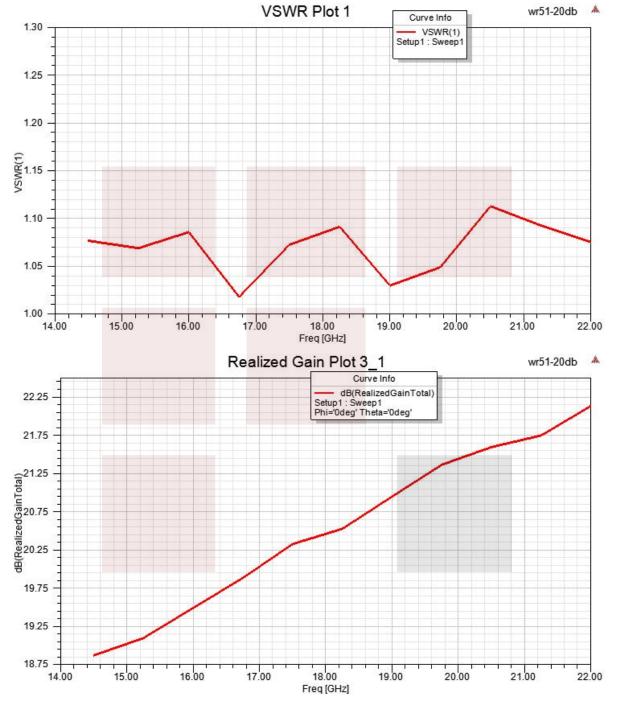
- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems
- Radome Testing
- Automotive Antenna Test Solutions
- Radar Cross Section
- Satellite Antenna Testing

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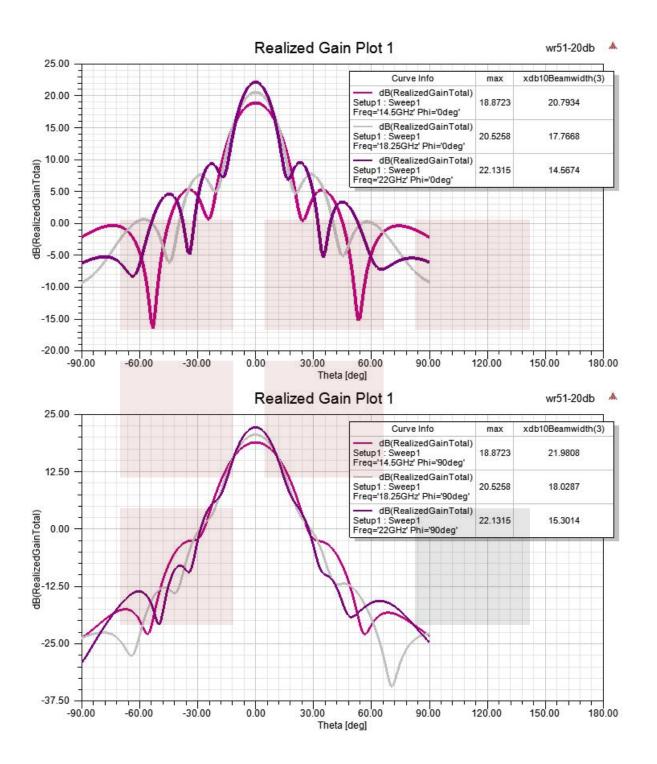
### **Typical Performance Data**



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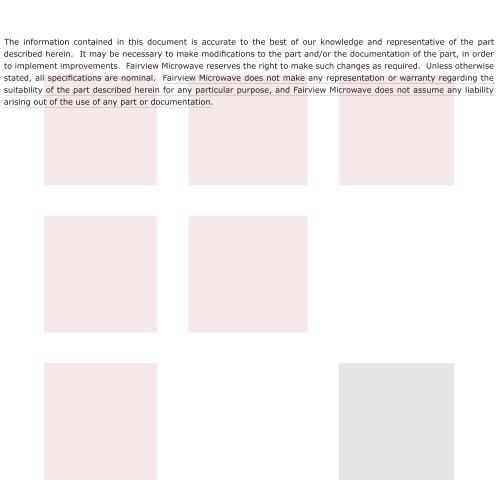


### FMWAN051-20SF DATA SHEET

WR-51 Standard Gain Horn with 20 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.

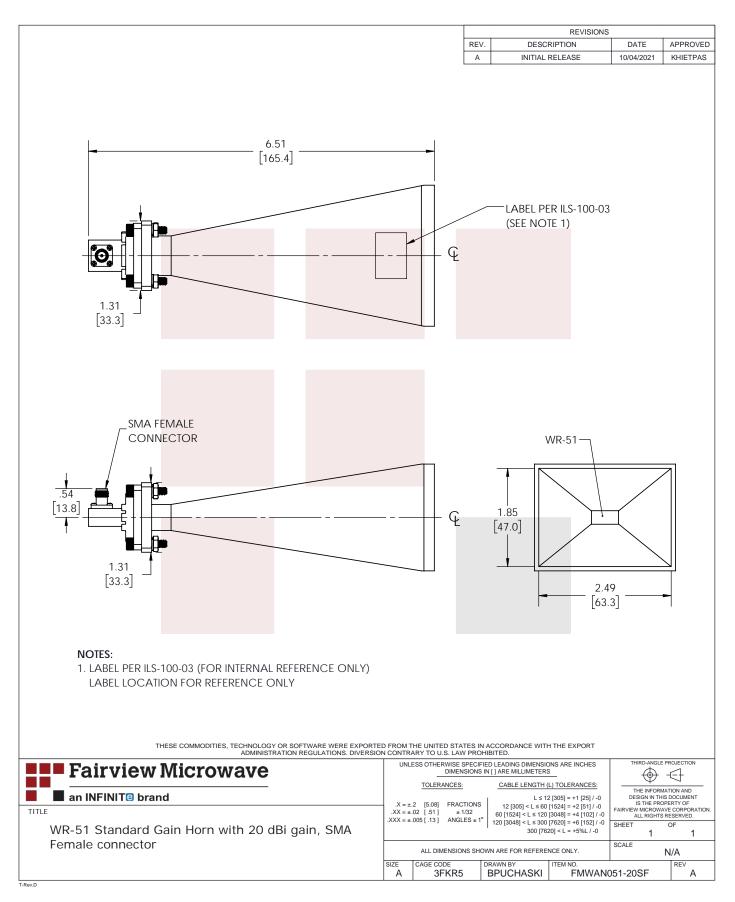
For additional information on this product, please click the following link: WR-51 Standard Gain Horn with 20 dBi gain, SMA Female connector FMWAN051-20SF

URL:



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