

## FMWAN187-20SF DATA SHEET

# WR-187 Standard Gain Horn with 20 dBi gain, SMA Female connector

The FMWAN187-20SF 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-187 to SMA Female waveguide to coaxial adapter and operates from 3.95 GHz to 5.85 GHz.

Our FMWAN187-20SF 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-187 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FMWAN187-20SF 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-187 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-187 Standard Gain Horn SMA Female

#### **Electrical Specifications**

Description	Min	Тур	Max	Units
Frequency Range	3.95		5.85	GHz
Waveguide Standard Gain Horn				
Gain		20		dBi
Horizontal 3dB Beam Width		17.5		Degrees
Vertical 3dB Beam Width		17.3		Degrees
Waveguide to Coaxial	Adapter			
Input VSWR			1.3:1	

#### **Mechanical Specifications**

<b>Size</b> Length Width/Diameter Height Weight	20.796 in 528.22 mm 9.154 in 232.51 mm 6.792 in 172.52 mm 3.1019 lbs 1.41 kg
<b>RF Connector</b> Type	SMA Female
<b>Waveguide Interface</b> Waveguide Size	WR-187

#### **Environmental Specifications**

Compliance Certifications (see product page for current document)

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

Notes:



#### **Features:**

- 3.95 GHz to 5.85 GHz
- WR-187 Waveguide Band
- 20 dBi Nominal Gain
- SMA Female Connector

### **Applications:**

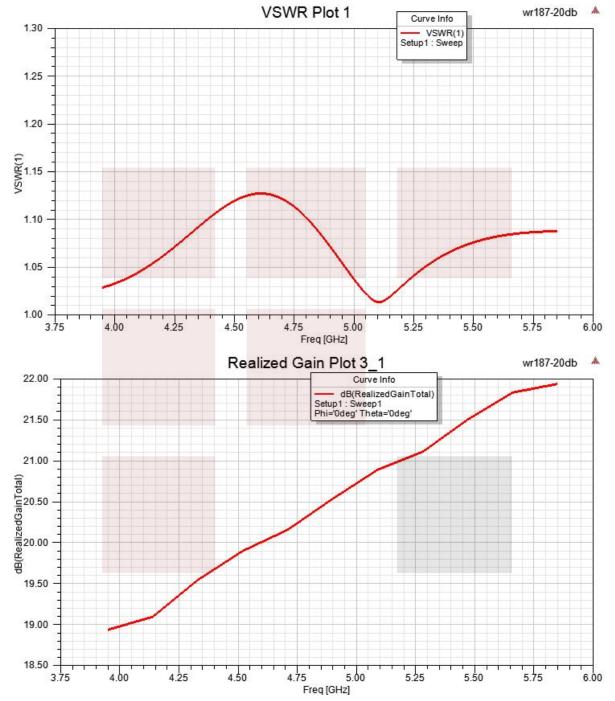
- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems
- Radome Testing
- Automotive Antenna Test Solutions
- Radar Cross Section
- Satellite Antenna Testing

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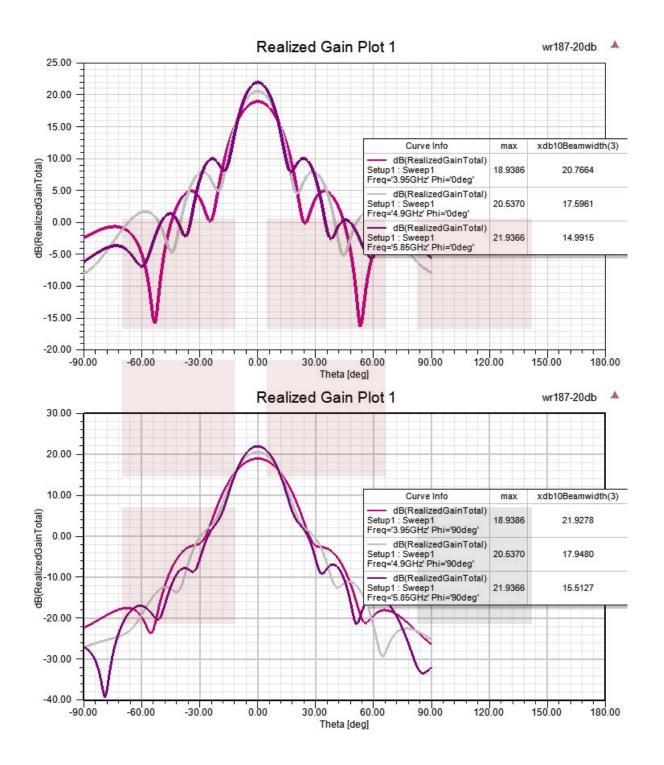
#### **Typical Performance Data**



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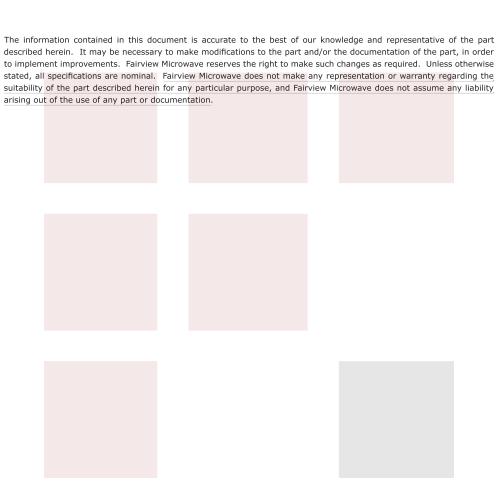




WR-187 Standard Gain Horn with 20 dBi gain, SMA Female connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

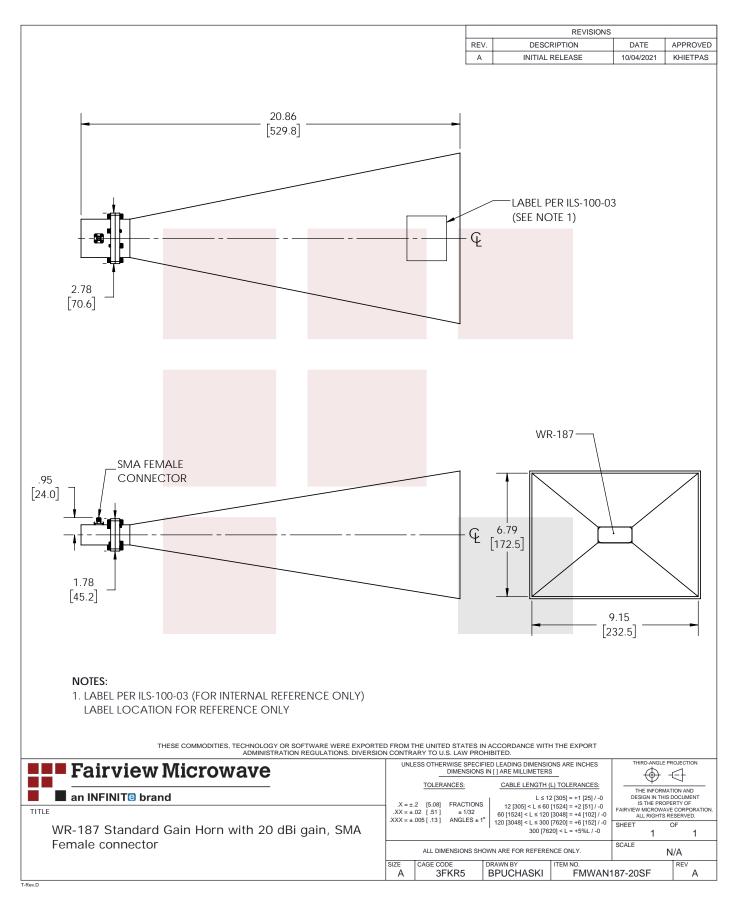
For additional information on this product, please click the following link: WR-187 Standard Gain Horn with 20 dBi gain, SMA Female connector FMWAN187-20SF

URL:









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