

# FMWAN159-20 DATA SHEET

# WR-159 Waveguide Antenna With 20 dBi Gain and 4.9 GHz to 7.05 GHz

The FMWAN159-20 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-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 17.5 and 17.3 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 FMWAN159-20 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		20		dB
Horizontal 3dB Beam Width	1	17.5		Deg
Vertical 3dB Beam Width		17.3		Deg
VSWR		1.3:1		

#### **Mechanical Specifications**

Size	
Length	16.142 in [410.01 mm]
Width/Diameter	7.775 in [197.49 mm]
Height	5.769 in [146.53 mm]
Weight	2.25 lbs [1.02 kg]

#### Waveguide Interface

Waveguide Size	
Flange Type	
Body Material and Plating	

WR-159 CMR-159 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
- 20 dBi Nominal Gain
- 20 dBi Nominal Gain
- CMR-159 Cover Flange
- C Band

## **Applications:**

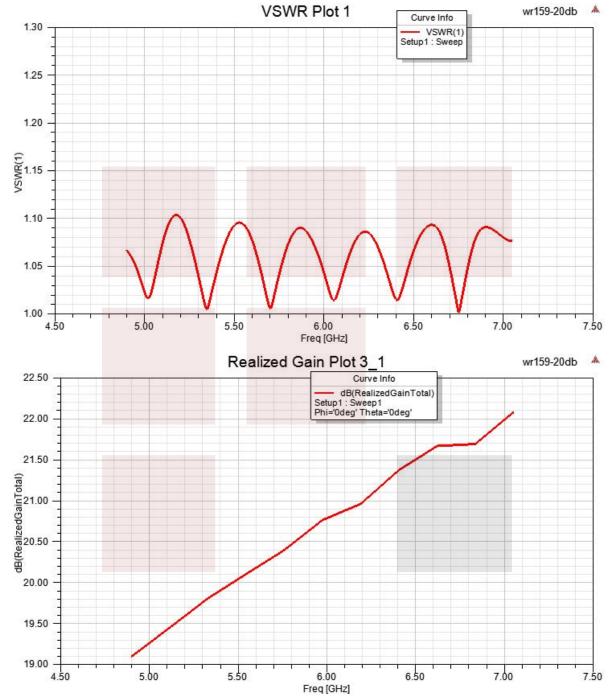
- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems

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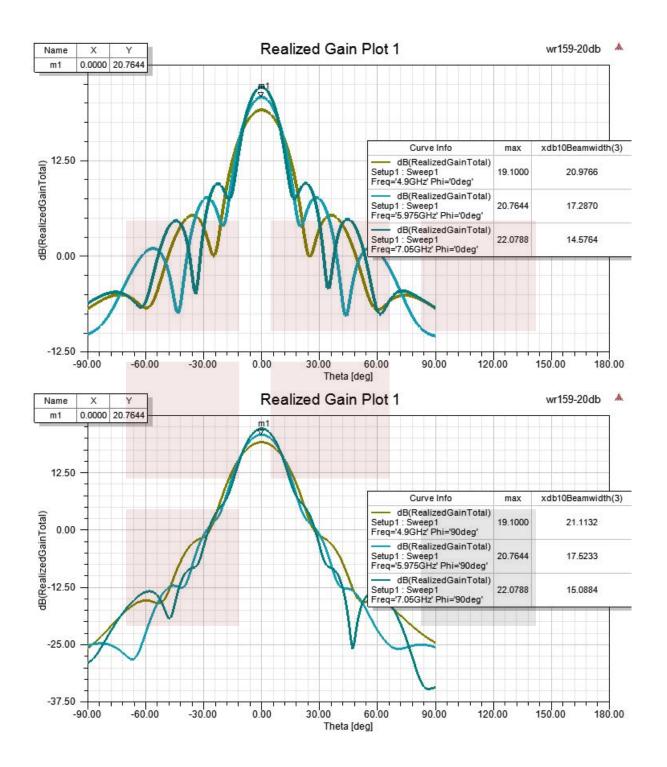


#### **Typical Performance Data**













WR-159 Waveguide Antenna With 20 dBi Gain and 4.9 GHz to 7.05 GHz 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 Waveguide Antenna With 20 dBi Gain and 4.9 GHz to 7.05 GHz FMWAN159-20

URL: https://www.fairviewmicrowave.com/wr-159-waveguide-standard-gain-horn-20-db-none-fmwan159-20-p.aspx

