

FMWAN159-20NF DATA SHEET

WR-159 Standard Gain Horn with 20 dBi gain, N Female connector

The FMWAN159-20NF 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-159 to N Female waveguide to coaxial adapter and operates from 4.9 GHz to 7.05 GHz.

Our FMWAN159-20NF 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 N Female to WR-159 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FMWAN159-20NF 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-159 waveguide antennas with N 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-159 Standard Gain Horn

Coaxial Interface N Female

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	4.9		7.05	GHz
Waveguide Standard	Gain Horn			
Gain		20		dBi
Horizontal 3dB Beam V	17.5		Degrees	
Vertical 3dB Beam Wid	17.3		Degrees	
Waveguide to Coaxial	Adapter			
Input VSWR			1.3:1	

Mechanical Specifications

Size

 Length
 18.642 in 473.51 mm

 Width/Diameter
 7.775 in 197.49 mm

 Height
 5.769 in 146.53 mm

 Weight
 2.3875 lbs 1.08 kg

RF Connector

Type N Female

Waveguide Interface

Waveguide Size WR-159

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Features:

- 4.9 GHz to 7.05 GHz
- WR-159 Waveguide Band
- 20 dBi Nominal Gain
- N Female Connector

Applications:

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

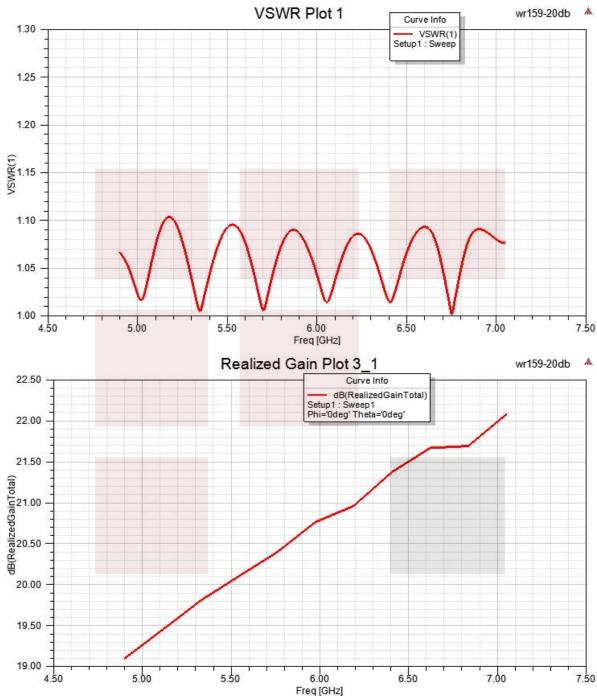
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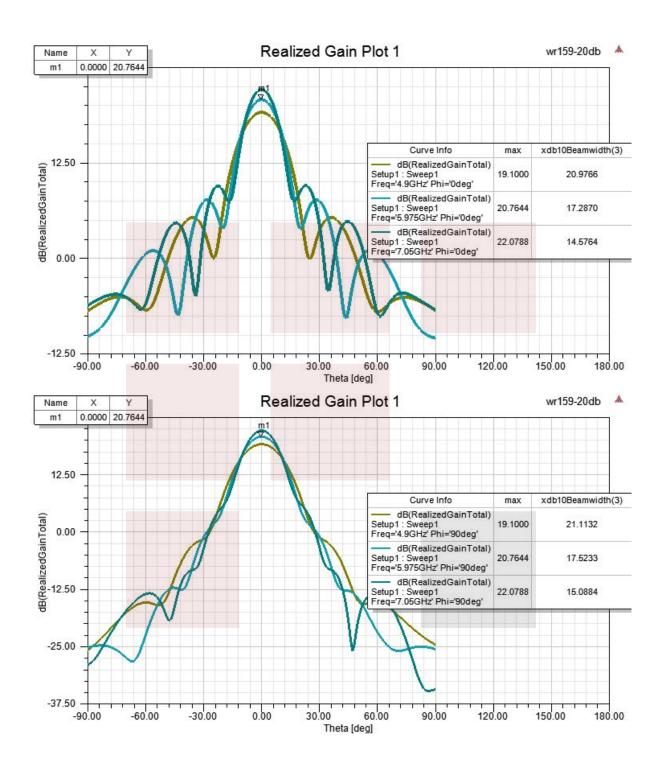


Typical Performance Data













WR-159 Standard Gain Horn with 20 dBi gain, N 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-159 Standard Gain Horn with 20 dBi gain, N Female connector FMWAN159-20NF

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

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suitability	of the part described here	n for any	y particular	purpose, a	nd Fair	view Mi	crowave do	es not assu	ıme any I	iability
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