

# FMWAN159-10SF DATA SHEET

# WR-159 Standard Gain Horn with 10 dBi gain, SMA Female connector

The FMWAN159-10SF 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 SMA Female waveguide to coaxial adapter and operates from 4.9 GHz to 7.05 GHz.

Our FMWAN159-10SF standard gain horn antenna has a nominal gain of 10 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 52.1 dB and 51.6 dB respectively. Fairview Microwave's SMA 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 FMWAN159-10SF 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 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 WR-159 Standard Gain Horn

Coaxial Interface SMA Female

#### **Electrical Specifications**

Description	Min	Тур	Max	Units	
Frequency Range	4.9		7.05	GHz	
Waveguide Standard (	Gain Horn				
Gain	10		dBi		
Horizontal 3dB Beam W	52.1		Degrees		
Vertical 3dB Beam Width		51.6		Degrees	
Waveguide to Coaxial	Adapter				
Input VSWR			1.3:1		

#### **Mechanical Specifications**

Size

 Length
 4.92 in 124.97 mm

 Width/Diameter
 2.417 in 61.39 mm

 Height
 1.94 in 49.28 mm

 Weight
 0.5505 lbs 249.7 g

**RF Connector** 

Type SMA 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
- 10 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

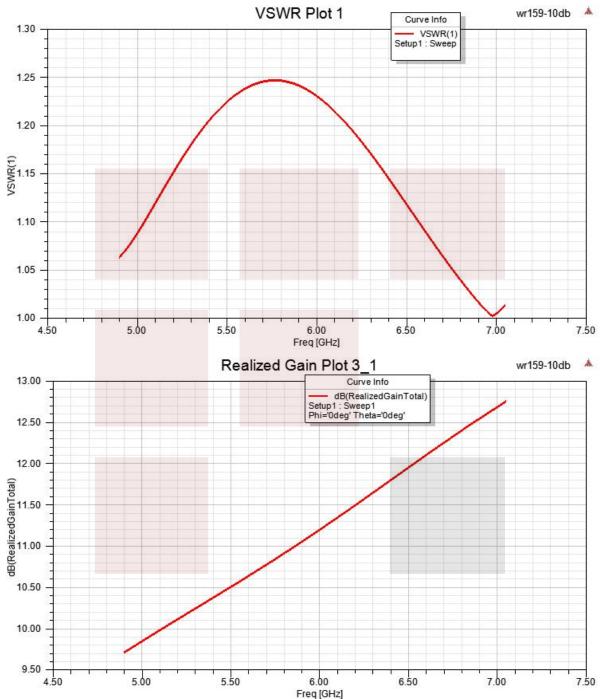
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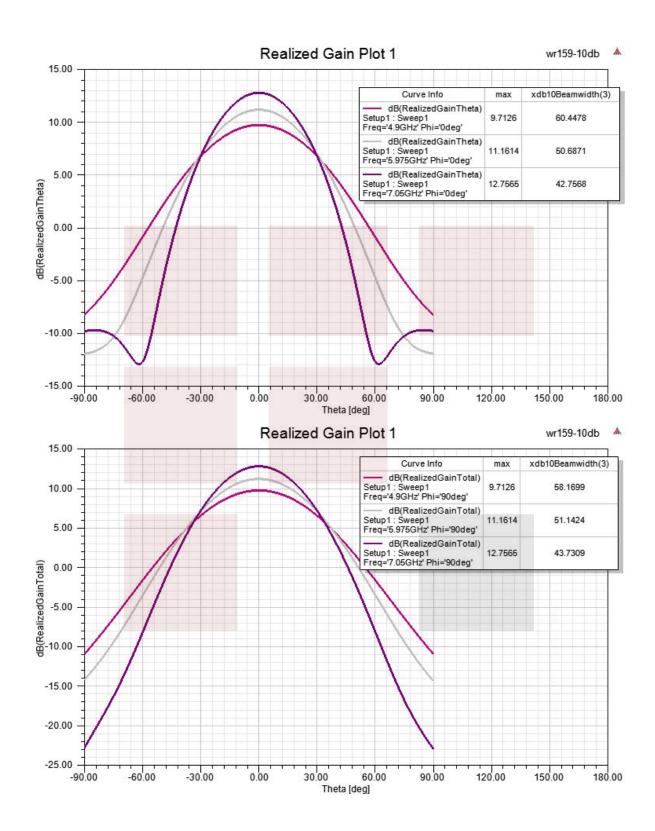


#### **Typical Performance Data**













WR-159 Standard Gain Horn with 10 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-159 Standard Gain Horn with 10 dBi gain, SMA Female connector FMWAN159-10SF

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

URL:

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to implem	ent improvements. Fairview	Microway	e reserves the	right to mak	e such o	changes as requi	red. Unless	otherwise
	specifications are nominal.							
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