

FMWAN051-10SF DATA SHEET

WR-51 Standard Gain Horn with 10 dBi gain, SMA Female connector

The FMWAN051-10SF 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-51 to SMA Female waveguide to coaxial adapter and operates from 15 GHz to 22 GHz.

Our FMWAN051-10SF 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-51 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FMWAN051-10SF 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-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				
Gain		10		dBi
Horizontal 3dB Beam Width		52.1		Degrees
Vertical 3dB Beam Width		51.6		Degrees
Waveguide to Coaxial	Adapter			
Input VSWR			1.25:1	

Mechanical Specifications

Size Length Width/Diameter Height	2.538 in 64.47 mm 1.31 in 33.27 mm 1.31 in 33.27 mm
Weight RF Connector Type	0.163 lbs 73.94 g SMA Female
Waveguide Interface Waveguide Size	WR-51

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Features:

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

Applications:

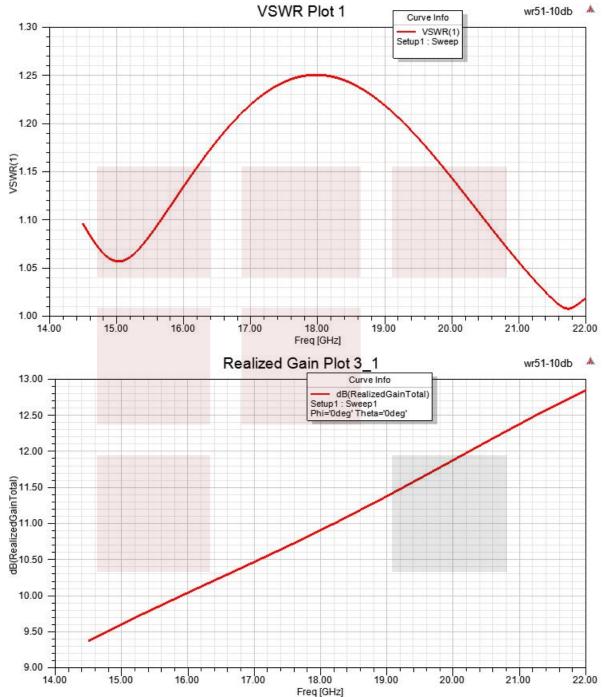
- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems
- Radome Testing
- Automotive Antenna Test Solutions
- Radar Cross Section
- Satellite Antenna Testing

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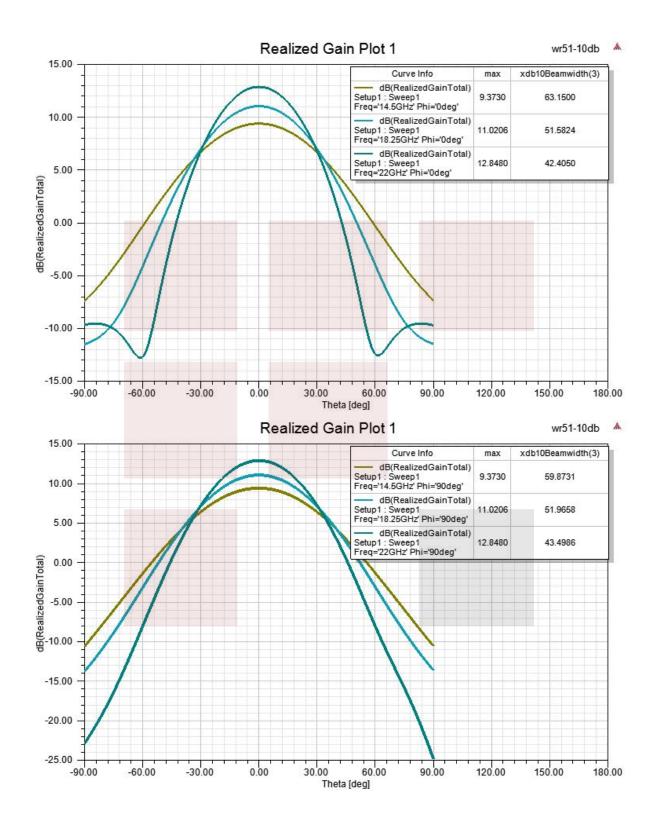


Typical Performance Data









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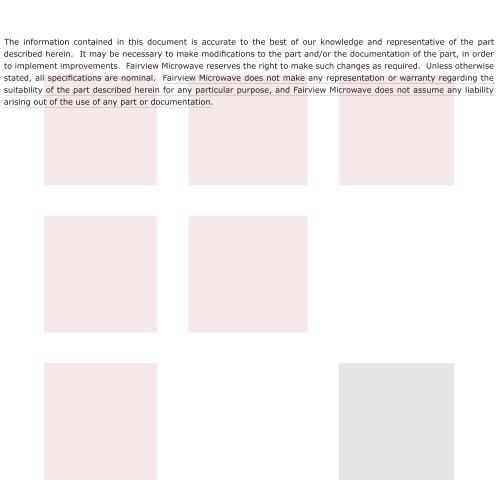


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WR-51 Standard Gain Horn with 10 dBi gain, SMA Female connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: WR-51 Standard Gain Horn with 10 dBi gain, SMA Female connector FMWAN051-10SF

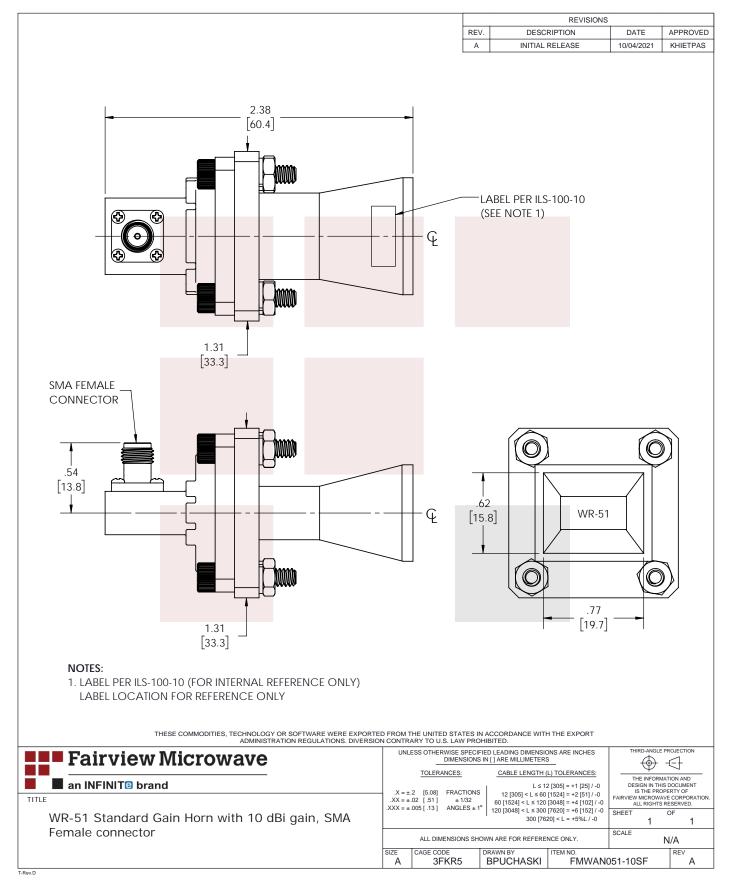
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