

FMWAN102-20SF DATA SHEET

WR-102 Standard Gain Horn with 20 dBi gain, SMA Female connector

The FMWAN102-20SF 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-102 to SMA Female waveguide to coaxial adapter and operates from 7 GHz to 11 GHz.

Our FMWAN102-20SF 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-102 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FMWAN102-20SF 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-102 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-102 Standard Gain Horn SMA Female

Electrical Specifications

Description	Min	Тур	Мах	Units
Frequency Range	7		11	GHz
Waveguide Standard G	ain Horn			
Gain		20		dBi
Horizontal 3dB Beam Width		17.5		Degrees
Vertical 3dB Beam Width		17.3		Degrees
Waveguide to Coaxial A	dapter			
Input VSWR			1.25:1	

Mechanical Specifications

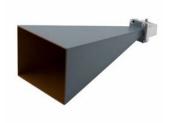
Size Length Width/Diameter Height Weight	13.063 in 331.8 mm 4.988 in 126.7 mm 3.701 in 94.01 mm 1.161 lbs 526.62 g
RF Connector Type	SMA Female
Waveguide Interface Waveguide Size	WR-102

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Features:

- 7 GHz to 11 GHz
- WR-102 Waveguide Band
- 20 dBi Nominal Gain
- SMA Female Connector

Applications:

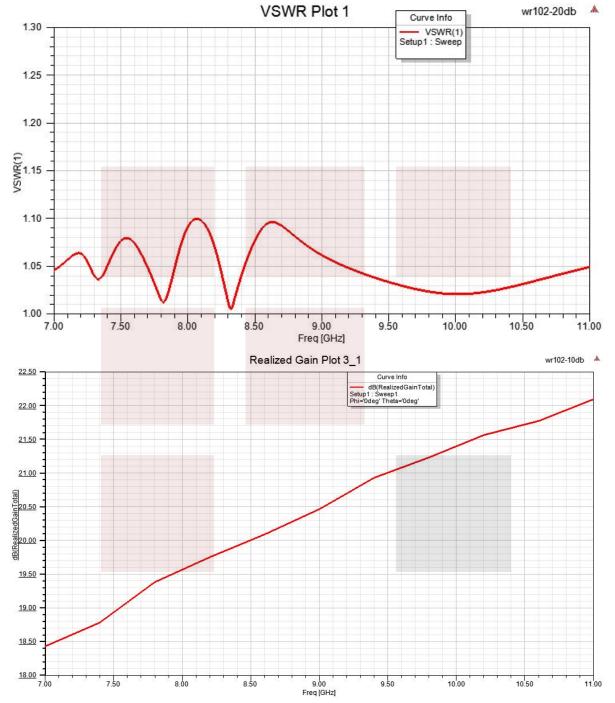
- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems
- Radome Testing
- Automotive Antenna Test Solutions
- Radar Cross Section
- Satellite Antenna Testing

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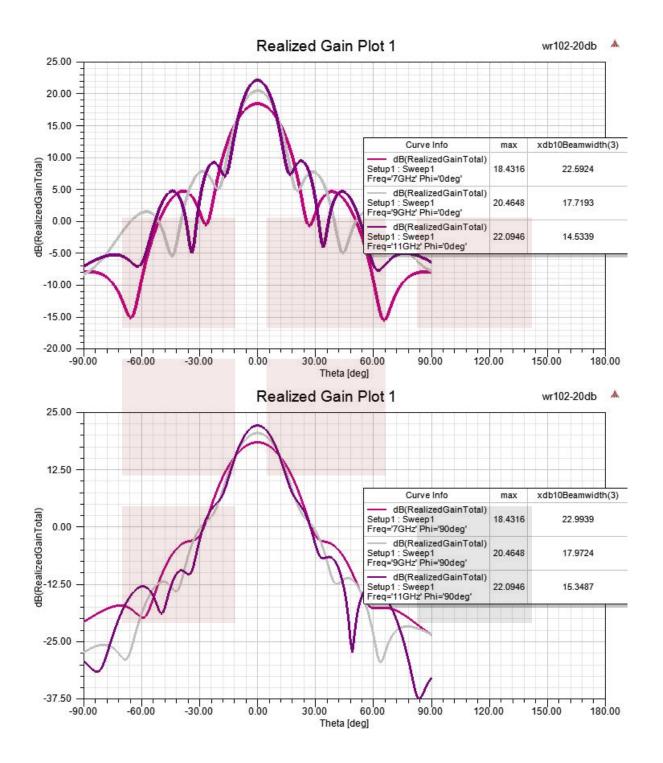
Typical Performance Data



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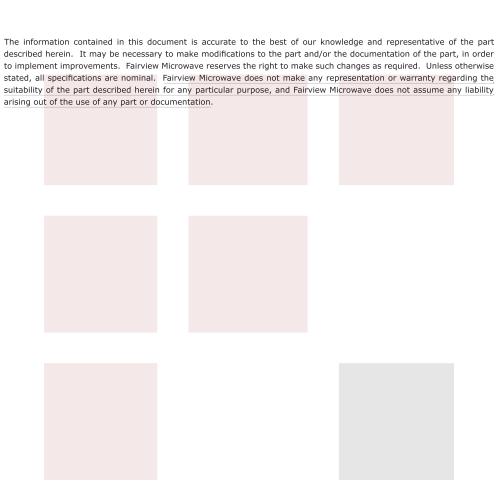


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WR-102 Standard Gain Horn with 20 dBi gain, SMA Female connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: WR-102 Standard Gain Horn with 20 dBi gain, SMA Female connector FMWAN102-20SF

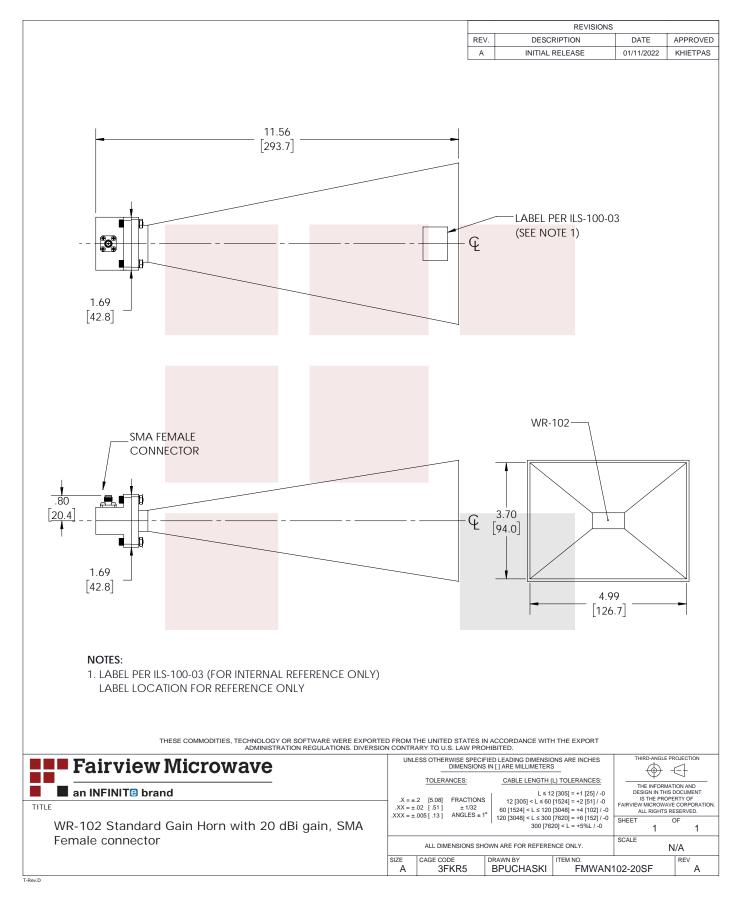
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