

# FMWAN102-20SM DATA SHEET

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

The FMWAN102-20SM 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 Male waveguide to coaxial adapter and operates from 7 GHz to 11 GHz.

Our FMWAN102-20SM 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 Male 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 FMWAN102-20SM 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 Male 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-102 Standard Gain Horn					
Coaxial Interface		SMA Ma	ale			
Electrical Specifications						
Description	Min	т	ур	Мах	Units	
Frequency Range	7			11	GHz	
Waveguide Standard Gain Horn						
Gain		-	20		dBi	
Horizontal 3dB Beam Width		1	7.5		Degrees	
Vertical 3dB Beam Width		1	7.3		Degrees	
Waveguide to Coaxial Adapter						
Input VSWR				1.3:1		
Mechanical Specifications						
Size						
Length		11.563	in 2	93.7 mm		
Width/Diameter			4.988 in 126.7 mm			
Height		3.701 in 94.01 mm				
Weight		1.0468 lbs 474.82 g				
<b>RF</b> Connector						
Туре		SMA Ma	SMA Male			
Waveguide Interface						
Waveguide Size		WR-102				
-		WR-102	2			
Environmental Specifi	cations	WR-102	2			

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 Male 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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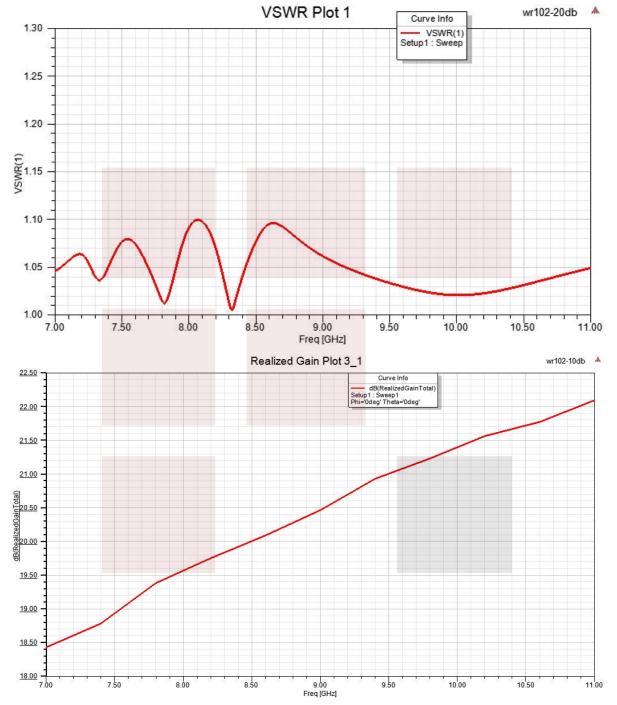
Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056

Fax: (972) 649-6689





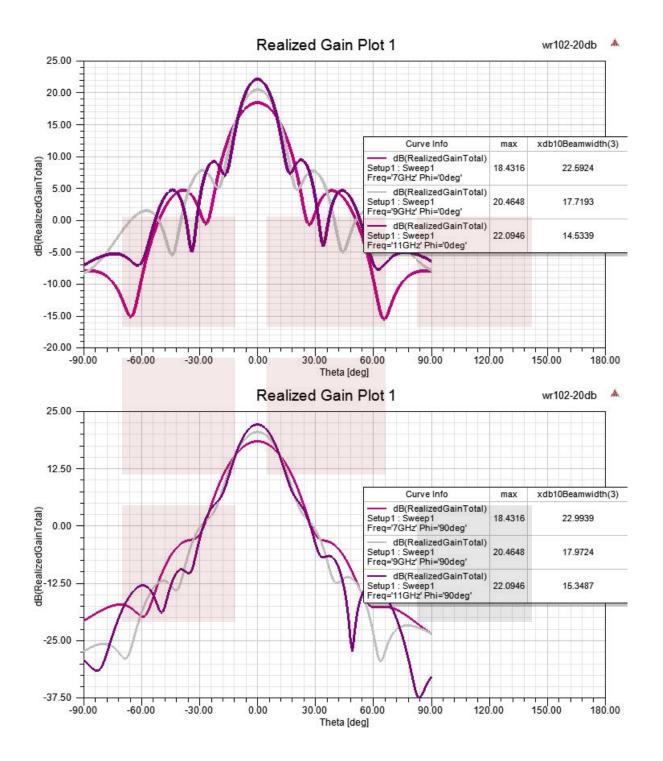
#### **Typical Performance Data**



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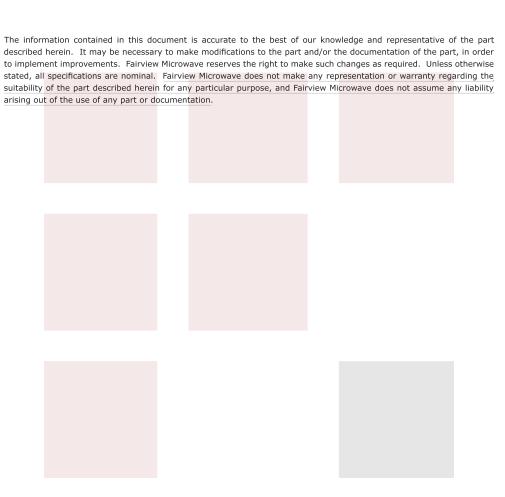




WR-102 Standard Gain Horn with 20 dBi gain, SMA Male connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

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

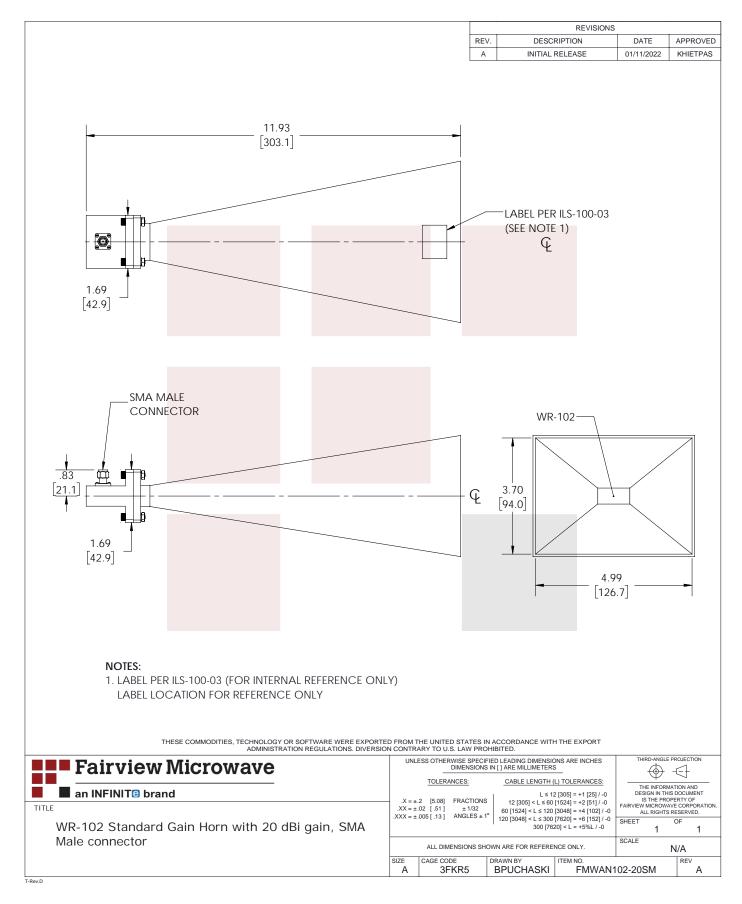
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