

# FM9856B/SF-20 DATA SHEET

# WR-90 Standard Gain Horn Antenna Operating From 8.2 GHz to 12.4 GHz, 20 dBi Nominal Gain, SMA Female Input Connector, ProLine

The Fairview Microwave FM9856B/SF-20 Proline series standard gain horn antenna (also known as waveguide horn) is part of our huge selection of waveguide antennas. This Fairview Microwave standard gain horn antenna is manufactured with a WR-90 input and a SMA waveguide to coaxial transition adapter. Our standard gain horn antenna, WR-90, has a 20 dBi nominal gain. This WR-90 standard gain horn from Fairview Microwave has a female SMA waveguide to coax transition adapter. The 20dBiFairview Microwave WR-90 hornantenna operates from 8.2 GHz to 12.4 GHz. Fairview Microwave's SMA female WR-90 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. It is part of over 40,000 RF, microwave and millimeter wave components available at Fairview Microwave. Waveguide standard gain horn antennas, such as the FM9856B/SF-20, are used in a wide variety of applications due to their high power handling capability, low loss, high directivity, and near constant electrical performance. The WR-90 FM9856B/ SF-20 waveguide horn is US made and TAA compliant. Our WR-90 standard gain horn Proline antennas with SMA female interface can ship same day to anywhere in the world.

## Configuration

Design	WR-90 Standard Gain Horn		
Design			
Pattern	Directional		
rattern	Directional		
Polarization	Linear		
FUIAIIZATIUII	Linear		
Coaxial Interface	SMA Female		
	SIVIA Ferniale		

## **Electrical Specifications**

Description	Min	Тур	Мах	Units
Frequency Range	8.2		12.4	GHz
Impedance		50		Ohms
Waveguide Standard	Gain Horn			
Gain		20		dB
Horizontal 3dB Beam V	Vidth	16.5		Degrees
Vertical 3dB Beam Wid	th	16.5		Degrees
Waveguide to Coaxial	Adapter			
Input VSWR			1.3:1	

### **Mechanical Specifications**

Size	
Weight	0.28 lbs 127.01 g
<b>RF Connector</b> Type	SMA Female
Waveguide Interface Waveguide Size Flange Designation Body Material and Plating	WR-90 UG-135/U Aluminum



## **Features:**

- WR-90 Rectangular
- Waveguide Interface
- 8.2 GHz to 12.4 GHz
- 15 dBi Nominal Gain
- SMA Female Connector

## **Applications:**

- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems

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## **Environmental Specifications**

### **Compliance Certifications** (see product page for current document)

## **Plotted and Other Data**

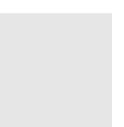
2 Dimensional OML Drawing FM9856B/SF-20 Notes:

WR-90 Standard Gain Horn Antenna Operating From 8.2 GHz to 12.4 GHz, 20 dBi Nominal Gain, SMA Female Input Connector, ProLine 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-90 Standard Gain Horn Antenna Operating From 8.2 GHz to 12.4 GHz, 20 dBi Nominal Gain, SMA Female Input Connector, ProLine FM9856B/SF-20

URL: https://www.fairviewmicrowave.com/wr-90-standard-gain-horn-20-db-sma-fm9856b-sf-20-p.aspx

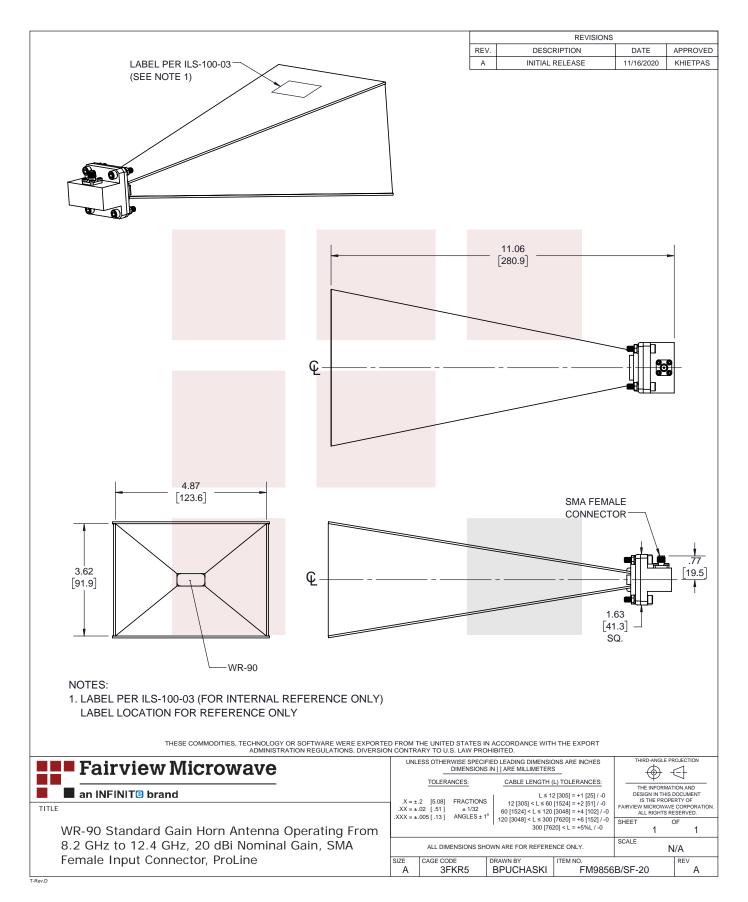
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