

FM9853B/SF-15 DATA SHEET

WR-51 Standard Gain Horn with SMA Female Input and 15 dB Typical Gain Operating Within 15 GHz to 22 GHz Frequency Range

The Fairview Microwave FM9853B/SF-15 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-51 input and a SMA waveguide to coaxial transition adapter. Our standard gain horn antenna, WR-51, has a 15 dBi nominal gain. This WR-51 standard gain horn from Fairview Microwave has a female SMA waveguide to coax transition adapter.

The 15 dBi Fairview Microwave WR-51 horn antenna operates from 15 GHz to 22 GHz. Fairview Microwave's SMA female WR-51 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 FM9853B/SF-15, 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-51 FM9853B/SF-15 waveguide horn is US made and TAA compliant. Our WR-51 standard gain horn Proline antennas with SMA female interface can ship same day to anywhere in the world.

Configuration

Design Pattern Polarization Coaxial Interface WR-51 Standard Gain Horn

Directional Linear SMA Female

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	15		22	GHz
Impedance		50		Ohms
Waveguide Standard (Gain Horn			
Gain		15		dB
Horizontal 3dB Beam Width		31.8		Degrees
Vertical 3dB Beam Widt	:h	32		Degrees
Waveguide to Coaxial	Adapter			
Input VSWR		1.3:1		

Mechanical Specifications

Size

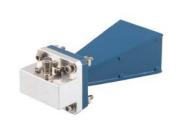
Length 3.56 in 90.42 mm
Width/Diameter 1.41 in 35.81 mm
Height 1.31 in 33.27 mm
Weight 0.23 lbs 104.33 q

RF Connector

Type SMA Female

Waveguide Interface

Waveguide Size WR-51 Body Material and Plating Aluminum



Features:

- WR-51 Rectangular
 Waveguide Interface
- 15 GHz to 22 GHz
- 15 dBi Nominal Gain
- SMA Female Connector

Applications:

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

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Environmental Specifications

Environmental Specification Notes: FM9853B/SF-15

Compliance Certifications (see product page for current document)

Plotted and Other Data

2 Dimensional OML Drawing Notes:

FM9853B/SF-15

WR-51 Standard Gain Horn with SMA Female Input and 15 dB Typical Gain Operating Within 15 GHz to 22 GHz Frequency Range 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 SMA Female Input and 15 dB Typical Gain Operating Within 15 GHz to 22 GHz Frequency Range FM9853B/SF-15

URL: https://www.fairviewmicrowave.com/wr-51-standard-gain-horn-15-db-sma-fm9853b-sf-15-p.aspx

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