

WR-51 Standard Gain Horn Antenna Operating From 15 GHz to 22 GHz, 20 dBi Nominal Gain, SMA Female Input Connector, ProLine

The Fairview Microwave FM9853B/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-51 input and a SMA waveguide to coaxial transition adapter. Our standard gain horn antenna, WR-51, has a 20 dBi nominal gain. This WR-51 standard gain horn from Fairview Microwave has a female SMA waveguide to coax transition adapter. The 20 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-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-51 FM9853B/SF-20 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.



Features:

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

Applications:

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

Configuration

Design	WR-51 Standard Gain Horn
Pattern	Directional
Polarization	Linear
Coaxial Interface	SMA Female

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	15		22	GHz
Waveguide Standard Gain Horn				
Gain		20		dB
Waveguide to Coaxial Adapter				
Input VSWR		1.3:1		

Mechanical Specifications

Size

RF Connector

Type SMA Female

Waveguide Interface

Waveguide Size WR-51
Flange Type Square Cover
Body Material and Plating Aluminum

Environmental Specifications

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

2 Dimensional OML Drawing FM9853B/SF-20
Notes:

Fairview Microwave
301 Leora Ln., Suite 100
Lewisville, TX 75056
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

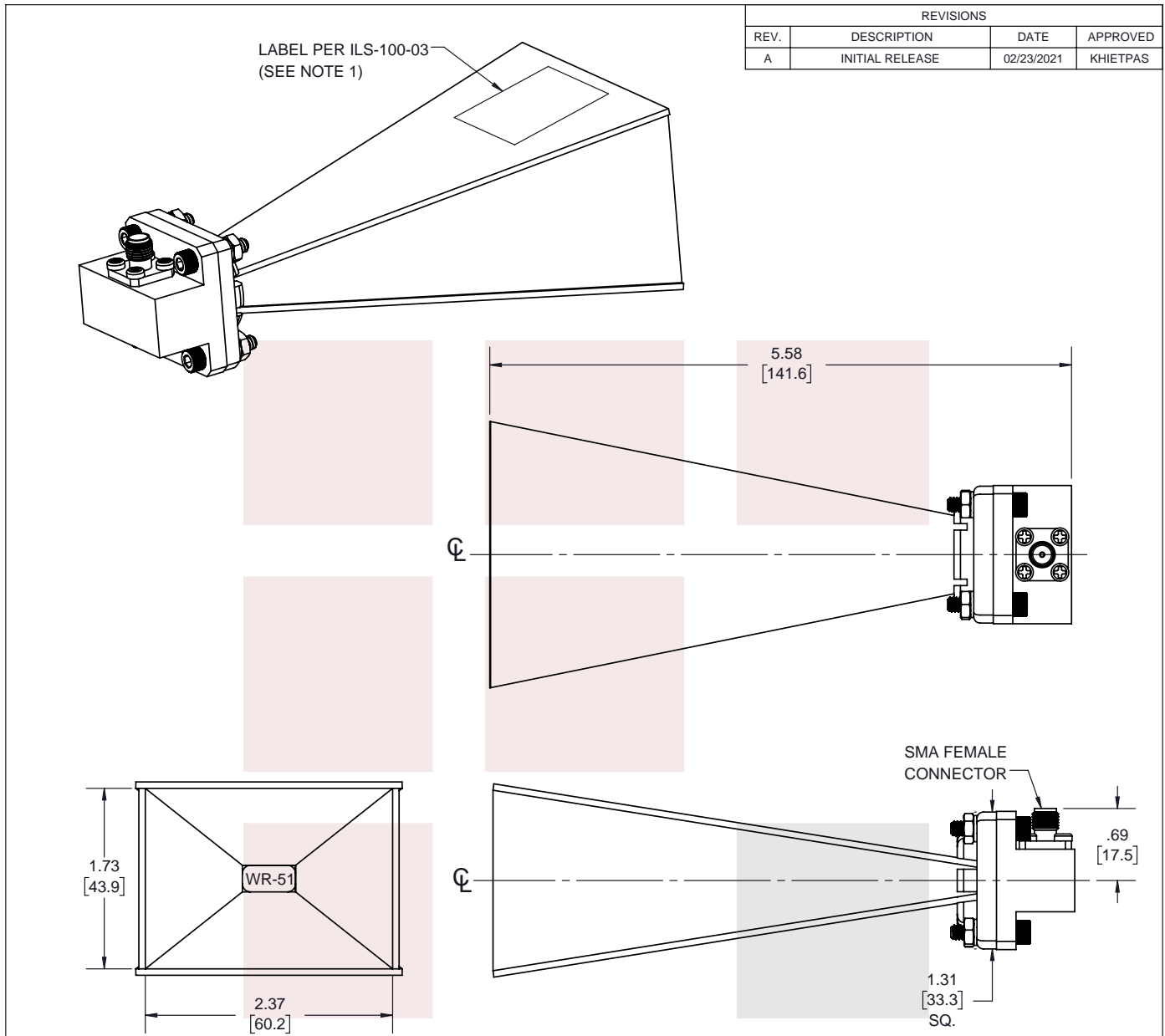
WR-51 Standard Gain Horn Antenna Operating From 15 GHz to 22 GHz, 20 dBi Nominal Gain, SMA Female Input Connector, ProLine from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-51 Standard Gain Horn Antenna Operating From 15 GHz to 22 GHz, 20 dBi Nominal Gain, SMA Female Input Connector, ProLine FM9853B/SF-20](#)

URL: <https://www.fairviewmicrowave.com/standard-gain-horn-0-fm9853b-sf-20-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/23/2021	KHIETPAS

- NOTES:
 1. LABEL PER ILS-100-03 (FOR INTERNAL REFERENCE ONLY)
 LABEL LOCATION FOR REFERENCE ONLY

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	TOLERANCES:		
TITLE WR-51 Standard Gain Horn Antenna Operating From 15 GHz to 22 GHz, 20 dBi Nominal Gain, SMA Female Input Connector, ProLine	.X = ±.2 [5.08] FRACTIONS ± 1/32 .XX = ±.02 [.51] .XXX = ±.005 [.13] ANGLES ± 1°	L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0	SHEET 1 OF 1 SCALE N/A
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			
SIZE A	CAGE CODE 3FKR5	DRAWN BY BPUCHASKI	ITEM NO. FM9853B/SF-20 REV A

T-Rev.D