Fairview Microwave
an INFINITE brand

FMWAN112-20SF DATA SHEET

WR-112 Standard Gain Horn with 20 dBi gain, SMA Female connector

The FMWAN112-20SF 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-112 to SMA Female waveguide to coaxial adapter and operates from 7.05 GHz to 10 GHz.

Our FMWAN112-20SF 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-112 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FMWAN112-20SF 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-112 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.

Features:

- 7.05 GHz to 10 GHz
- WR-112 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

Configuration

Design	WR-112 Standard Gain Horn
Coaxial Interface	SMA Female

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	7.05		10	GHz
Waveguide Standard Gain Horn				
Gain		20		dBi
Horizontal 3dB Beam Width		17.5		Degrees
Vertical 3dB Beam Width		17.3		Degrees
Waveguide to Coaxial Adapter				
Input VSWR			1.3:1	

Mechanical Specifications

Size

Length	12.557 in 318.95 mm
Width/Diameter	5.487 in 139.37 mm
Height	4.071 in 103.4 mm
Weight	1.223 lbs 554.74 g

RF Connector

Type	SMA Female

Waveguide Interface

Waveguide Size	WR-112

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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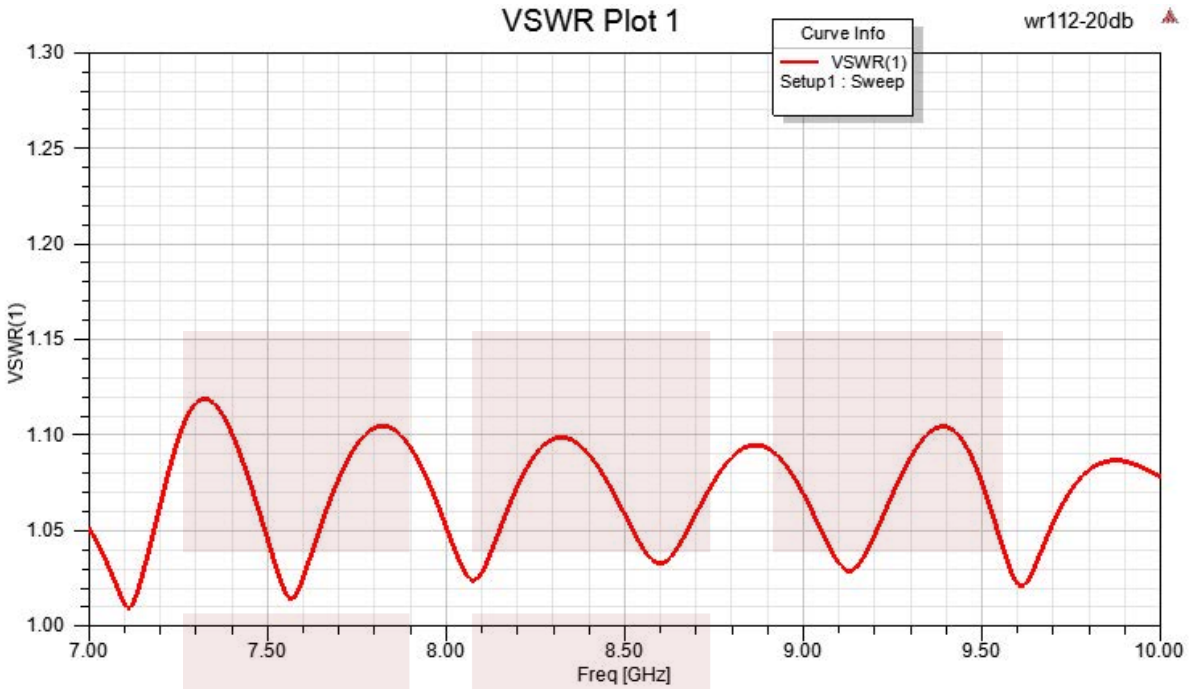
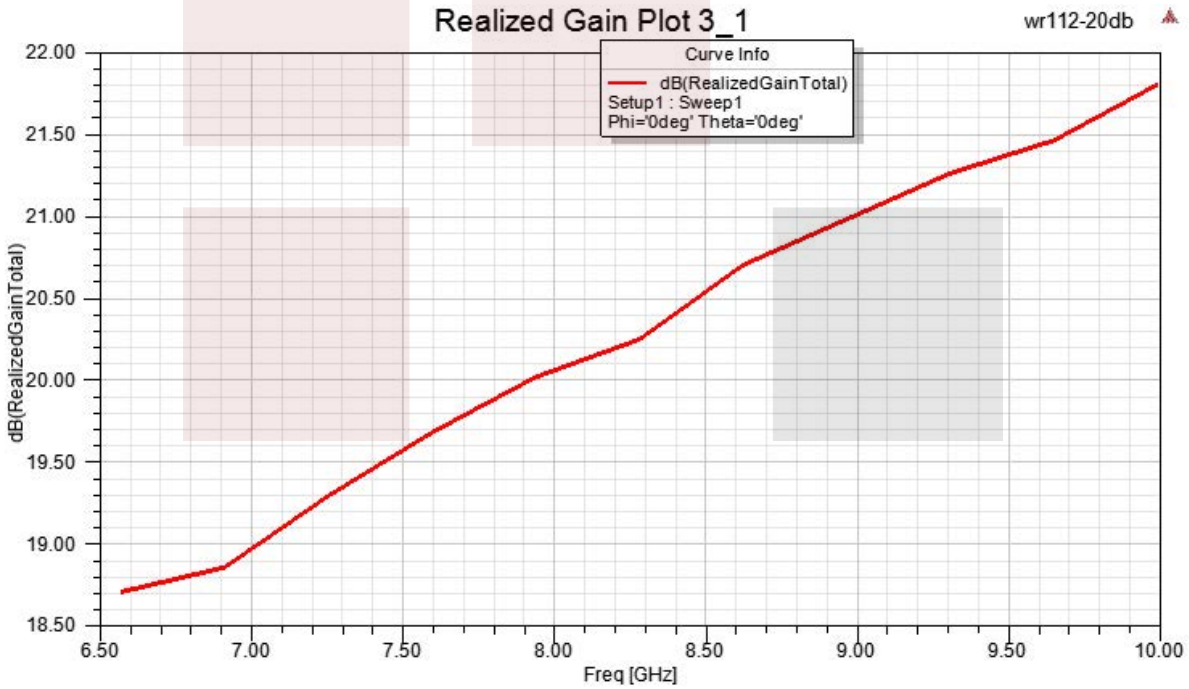
Typical Performance Data





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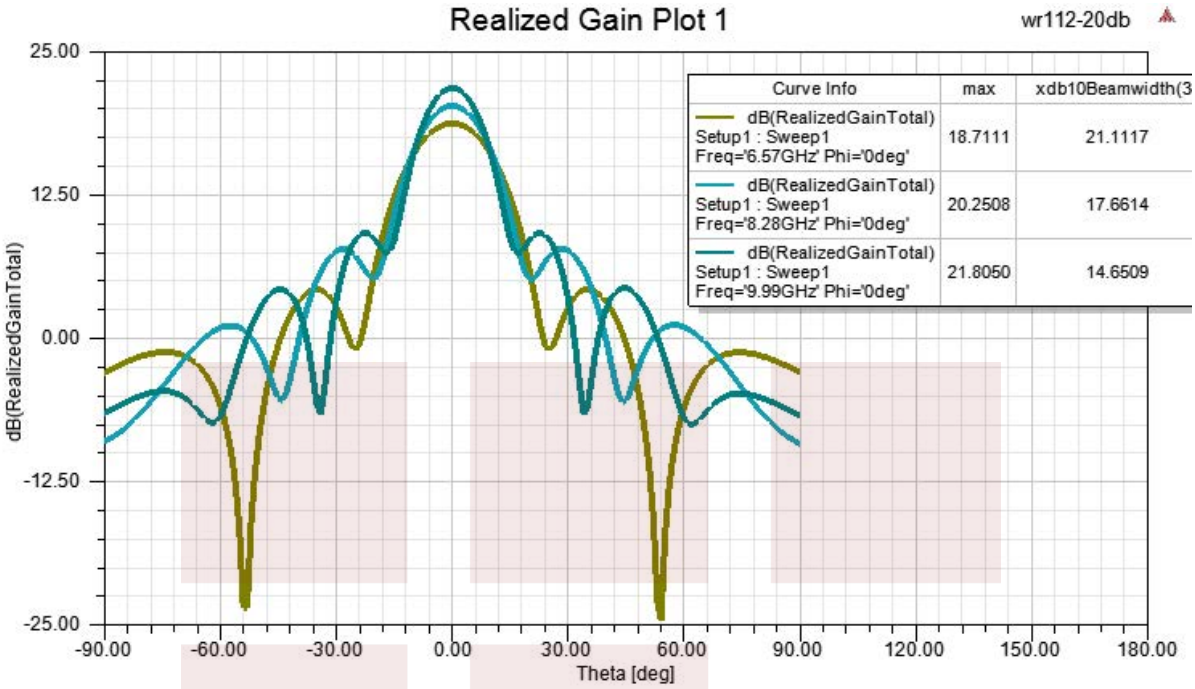

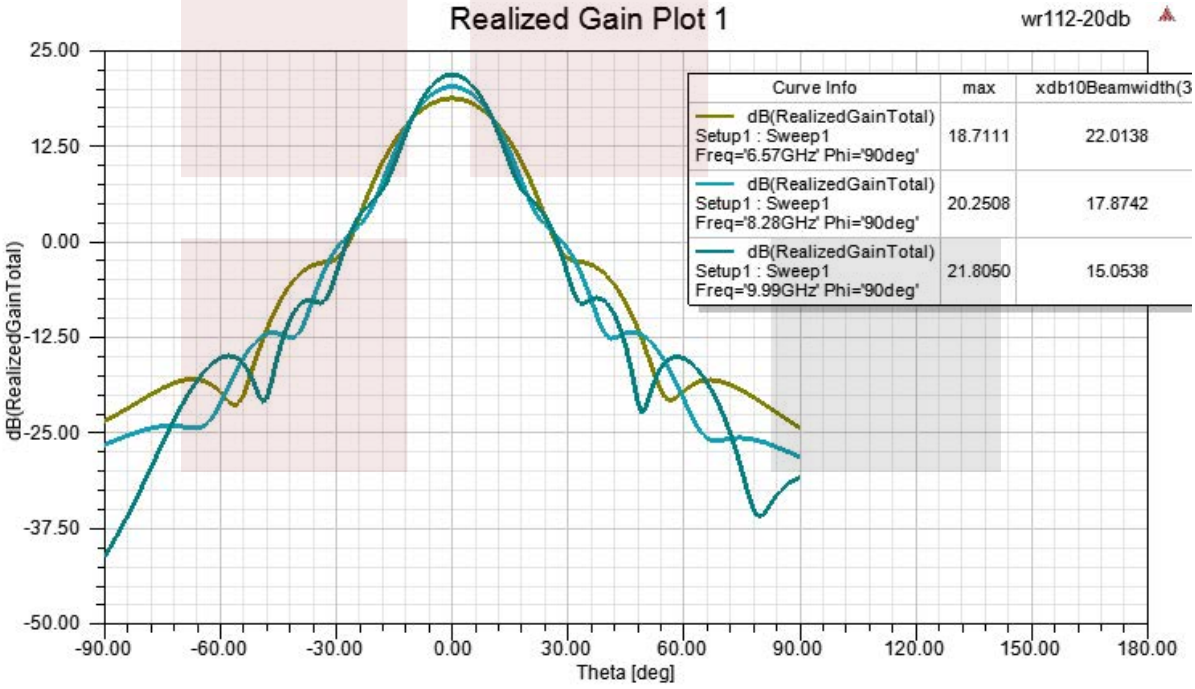

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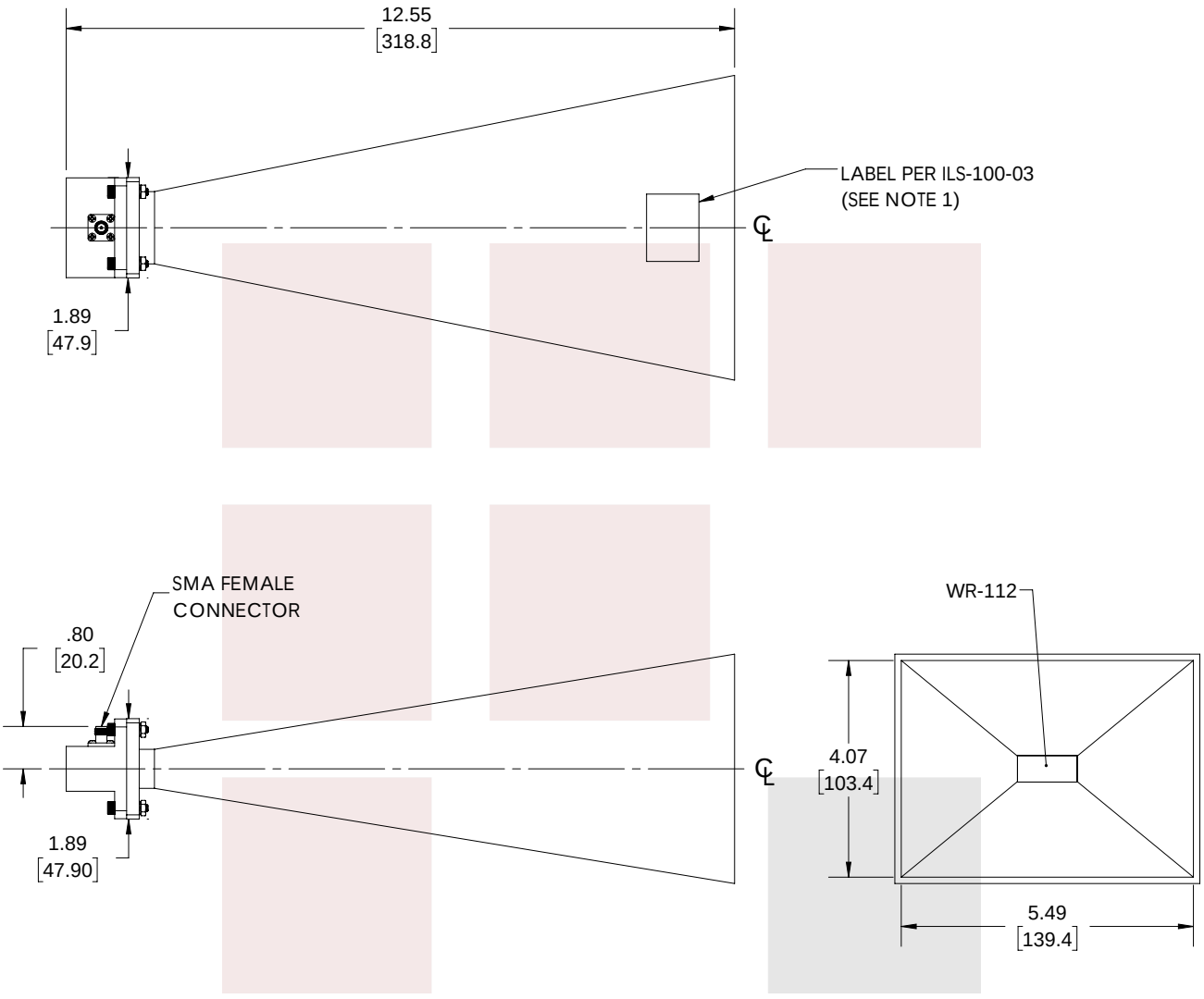
WR-112 Standard Gain Horn with 20 dBi gain, SMA Female connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: WR-112 Standard Gain Horn with 20 dBi gain, SMA Female connector FMWAN112-20SF

URL:

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	01/11/2022	KHIETPAS



NOTES:

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

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TITLE

WR-112 Standard Gain Horn with 20 dBi gain, SMA Female connector

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5.08]
.XX = ±.02 [.51]
.XXX = ±.005 [.13]
FRACTIONS ± 1/32
ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

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

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	BPUCHASKI	FMWAN112-20SF	A

T-Rev.D

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