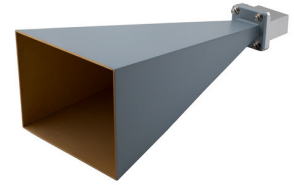


WR-112 Standard Gain Horn with 20 dBi gain, End Launch SMA Female connector



FMWAN112-20ELSF

Features

- 7.05 GHz to 10 GHz
- WR-112 Waveguide Band
- 20 dBi Nominal Gain
- SMA Female End Launch Connector

Applications

- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems
- Radome Testing
- Automotive Antenna Test Solutions
- Radar Cross Section
- Satellite Antenna Testing

Description

The FMWAN112-20ELSF 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 End Launch waveguide to coaxial adapter and operates from 7.05 GHz to 10 GHz.

Our FMWAN112-20ELSF 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 End Launch 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 FMWAN112-20ELSF 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 End Launch 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-112
Coaxial Interface	SMA Female

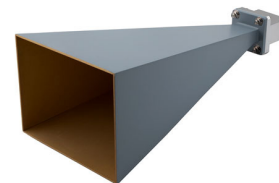
Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	7.05		10	GHz
Gain		20		dBi
Horizontal Half Power Beam Width		17.5		Degrees
Vertical Half Power Beam Width		17.3		Degrees
Waveguide to Coaxial Adapter				
VSWR			1.4:1	

Mechanical Specifications

Size	
Length	13.359 in [339.32 mm]
Width	5.487 in [139.37 mm]
Height	4.071 in [103.4 mm]
Weight	1.3095 lbs [593.98 g]

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



FMWAN112-20ELSF

RF Connector

Type
Specification

SMA Female
End Launch

Waveguide Interface

Waveguide Size

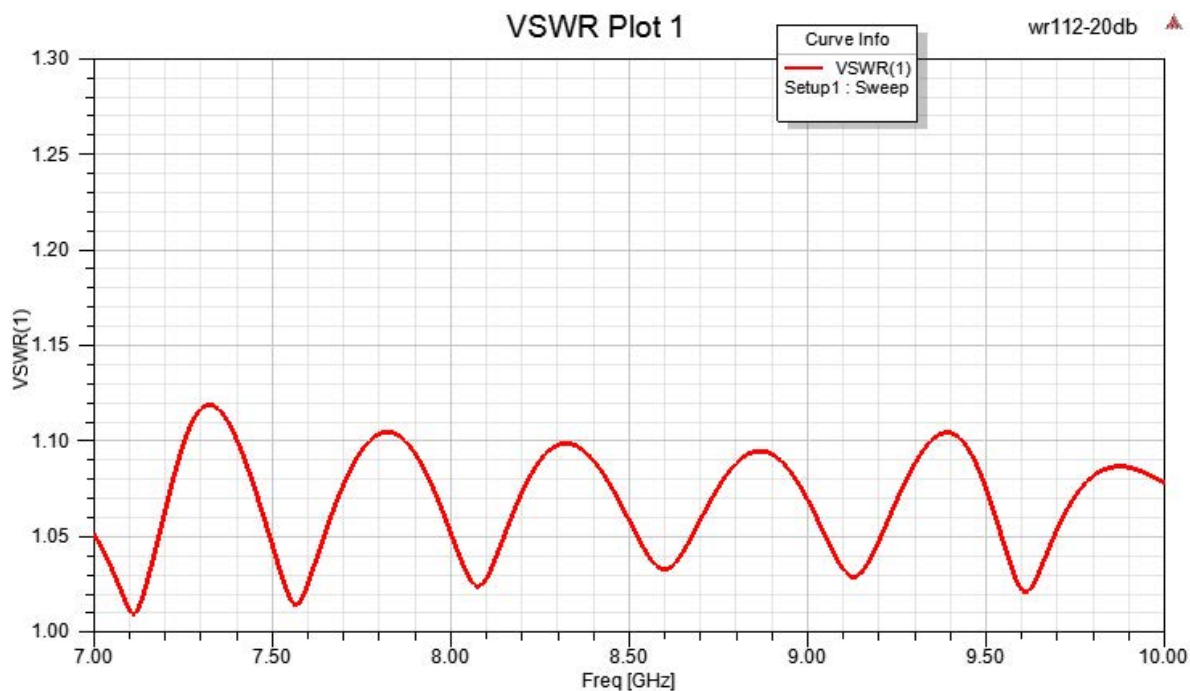
WR-112

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

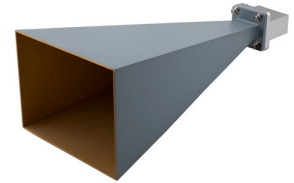
Plotted and Other Data

Notes:

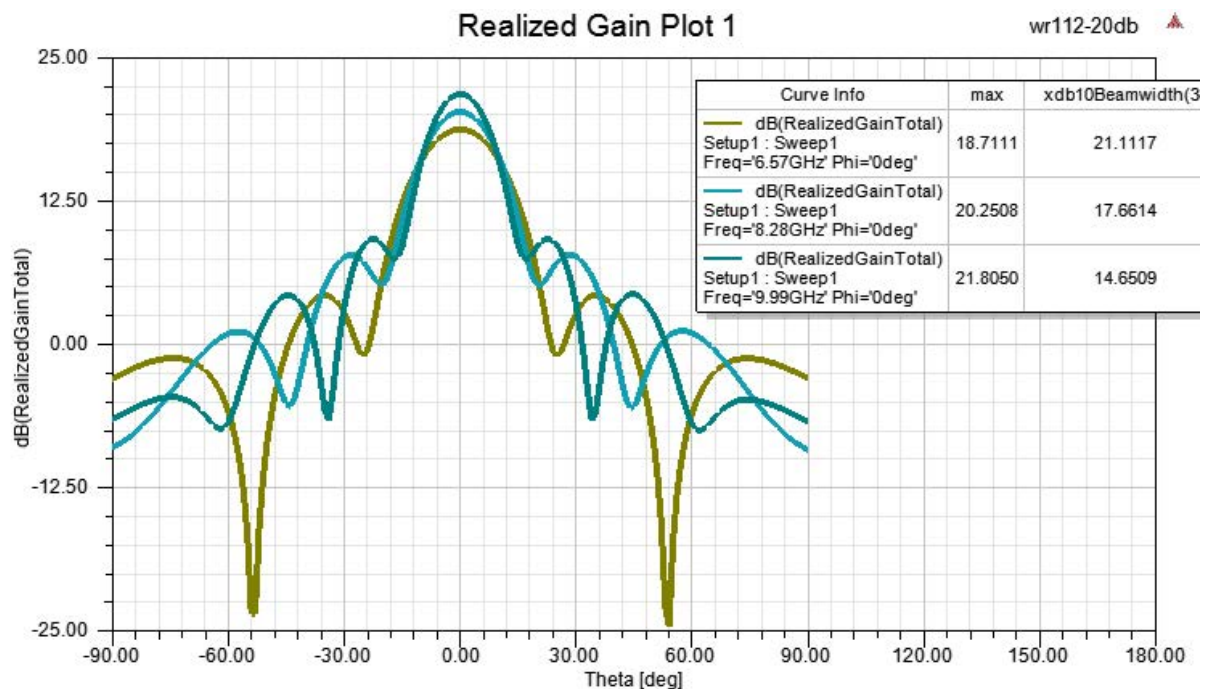
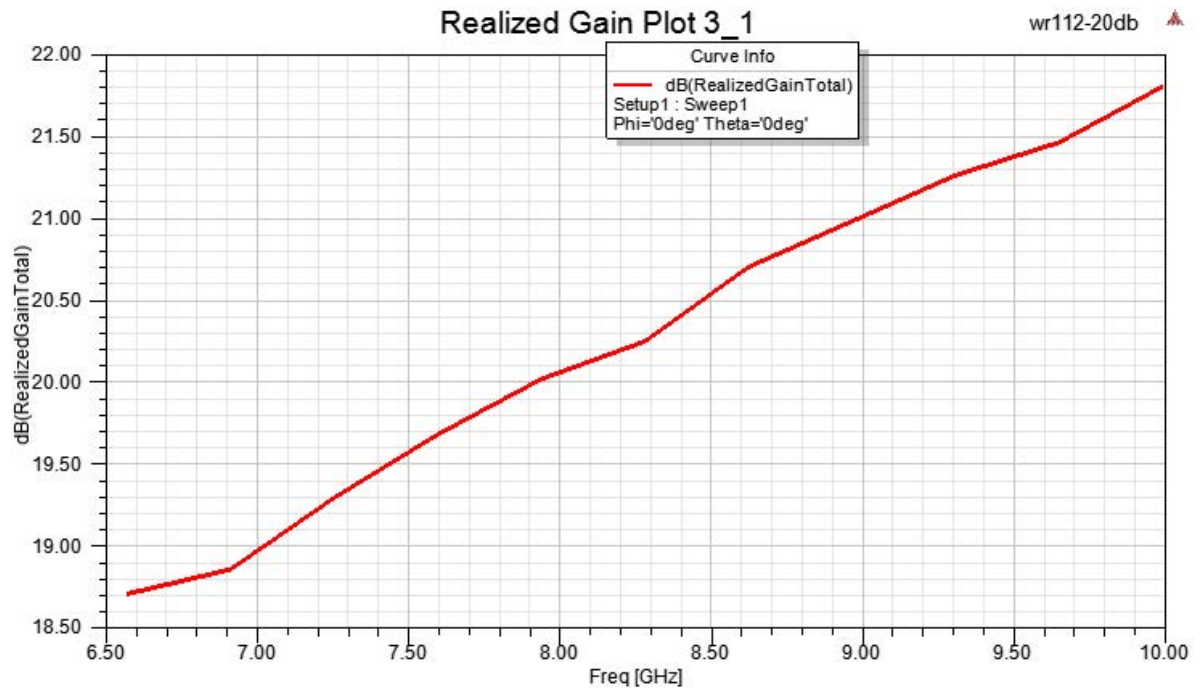
Typical Performance Data



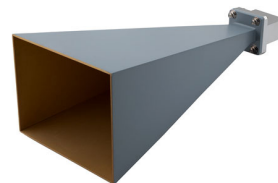
WR-112 Standard Gain Horn with 20 dBi gain,
End Launch SMA Female connector



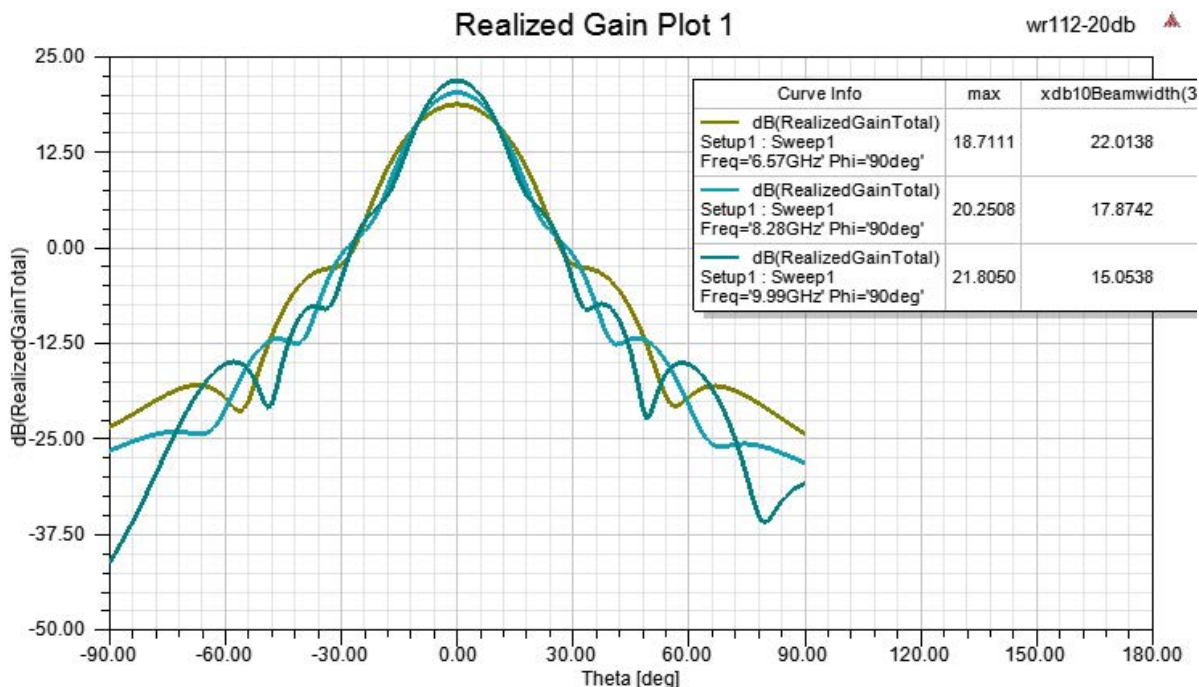
FMWAN112-20ELSF



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



FMWAN112-20ELSF



WR-112 Standard Gain Horn with 20 dBi gain, End Launch 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.

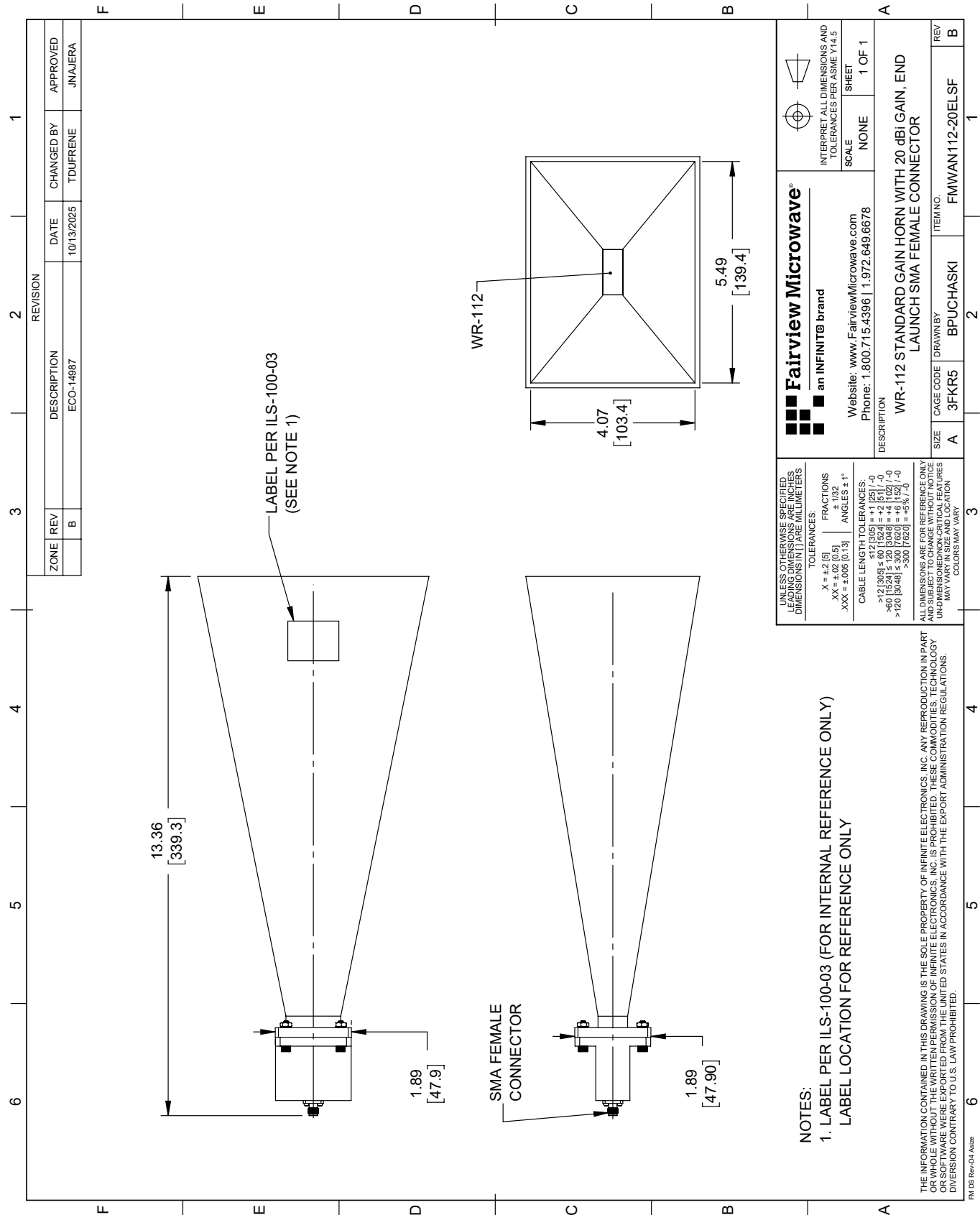
For additional information on this product, please click the following link: [WR-112 Standard Gain Horn with 20 dBi gain, End Launch SMA Female connector FMWAN112-20ELSF](#)

URL: <https://www.fairviewmicrowave.com/wr-112-standard-gain-horn-20-dbi-sma-fmwan112-20elsf-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

FMWAN112-20ELSF CAD Drawing

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



NOTES:

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

LABEL LOCATION FOR REFERENCE ONLY

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVISION CONTRARY TO U.S. LAW PROHIBITED.

FM D8 Rev-D4 Addn