

FMWAN102-20 DATA SHEET

WR-102 Waveguide Antenna With 20 dBi Gain and 7 GHz to 11 GHz

The FMWAN102-20 standard gain horn antenna (also known as waveguide horn) from Fairview Microwave has a nominal gain of 20 dBi. The Fairview Microwave 20 dBi WR-102 horn antenna operates from 7 GHz to 11 GHz (C-X Band). This WR-102 standard gain horn has a Square Cover type flange. Waveguide standard gain horn antennas are used in a wide variety of applications due to their high power handling capability, low loss, high directivity, and near constant electrical performance. These units are Aluminum and Powder coated for increased resistance to weather and corrosion with a Horizontal and Vertical Beam Width of 17.5 and 17.3 degrees respectively. Fairview Microwave's WR-102 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. C-X Band standard gain horn antenna can ship the same day to anywhere in the world. The WR-102 FMWAN102-20 waveguide horn is part of over 40,000 RF, microwave and millimeter wave components available from Fairview Microwave.

Configuration

Design WR-102 Polarization Linear

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	7		11	GHz
Nominal Gain		20		dB
Horizontal 3dB Beam Width	า	17.5		Deg
Vertical 3dB Beam Width		17.3		Deg
VSWR		1.3:1		

Mechanical Specifications

Size

 Length
 10.433 in [265 mm]

 Width/Diameter
 4.988 in [126.7 mm]

 Height
 3.701 in [94.01 mm]

 Weight
 0.9 lbs [408.23 g]

Waveguide Interface

Waveguide Size WR-102
Flange Type Square Cover
Body Material and Plating Aluminum, Gray

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Features:

- WR-102 Rectangular Waveguide Interface
- 7 GHz to 11 GHz
- 20 dBi Nominal Gain
- Square Cover Cover Flange
- C-X Band

Applications:

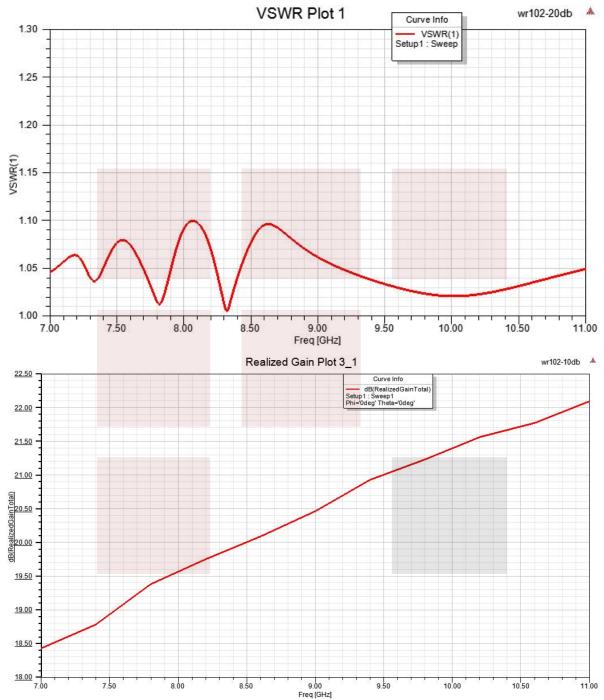
- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems

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



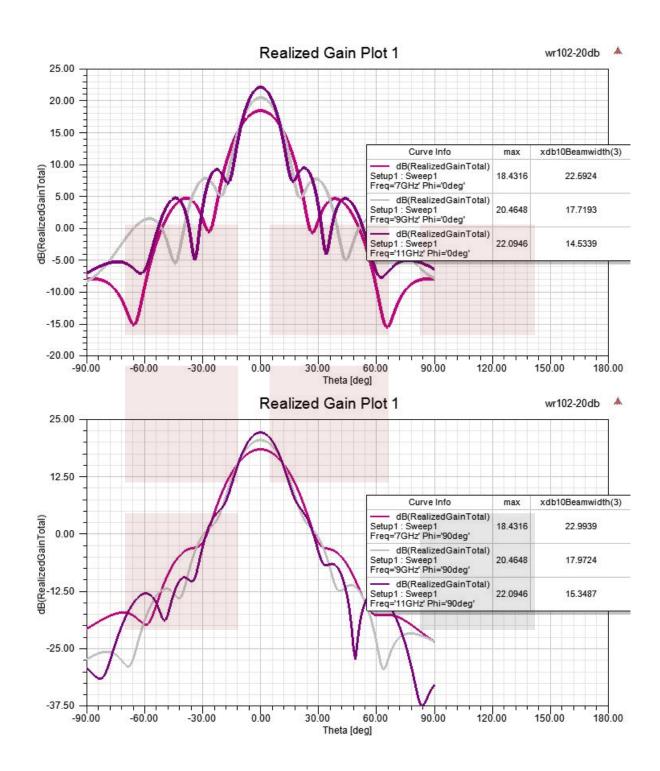


Typical Performance Data













WR-102 Waveguide Antenna With 20 dBi Gain and 7 GHz to 11 GHz 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-102 Waveguide Antenna With 20 dBi Gain and 7 GHz to 11 GHz FMWAN102-20

URL: https://www.fairviewmicrowave.com/wr-102-waveguide-standard-gain-horn-20-db-none-fmwan102-20-p.aspx







