

## WR-229 Standard Gain Horn Antenna Operating From 3.3 GHz to 4.9 GHz, 20 dBi Nominal Gain, CMR-229 Flange

The FMWAN229-20 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-229 horn antenna operates from 3.3 GHz to 4.9 GHz (S-C Band). This WR-229 standard gain horn has a CMR-229 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-229 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. S-C Band standard gain horn antenna can ship the same day to anywhere in the world. The WR-229 FMWAN229-20 waveguide horn is part of over 40,000 RF, microwave and millimeter wave components available from Fairview Microwave.



### Configuration

Design	WR-229
Polarization	Linear

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	3.3		4.9	GHz
Nominal Gain		20		dB
Horizontal 3dB Beam Width		17.5		Deg
Vertical 3dB Beam Width		17.3		Deg
VSWR		1.3:1		

### Mechanical Specifications

#### Size

Length	23.189 in [589 mm]
Width/Diameter	11.199 in [284.45 mm]
Height	8.309 in [211.05 mm]
Weight	4.4 lbs [2 kg]

#### Waveguide Interface

Waveguide Size	WR-229
Flange Type	CMR-229
Body Material and Plating	Aluminum, Gray

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

### Plotted and Other Data

Notes:

### Features:

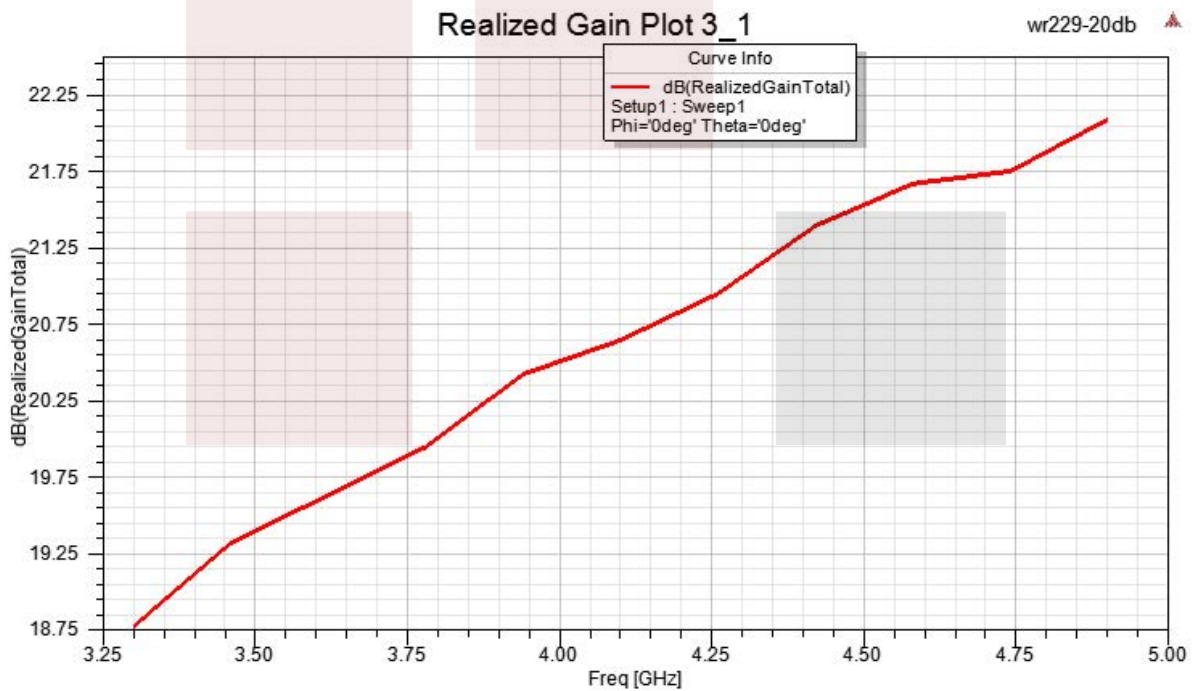
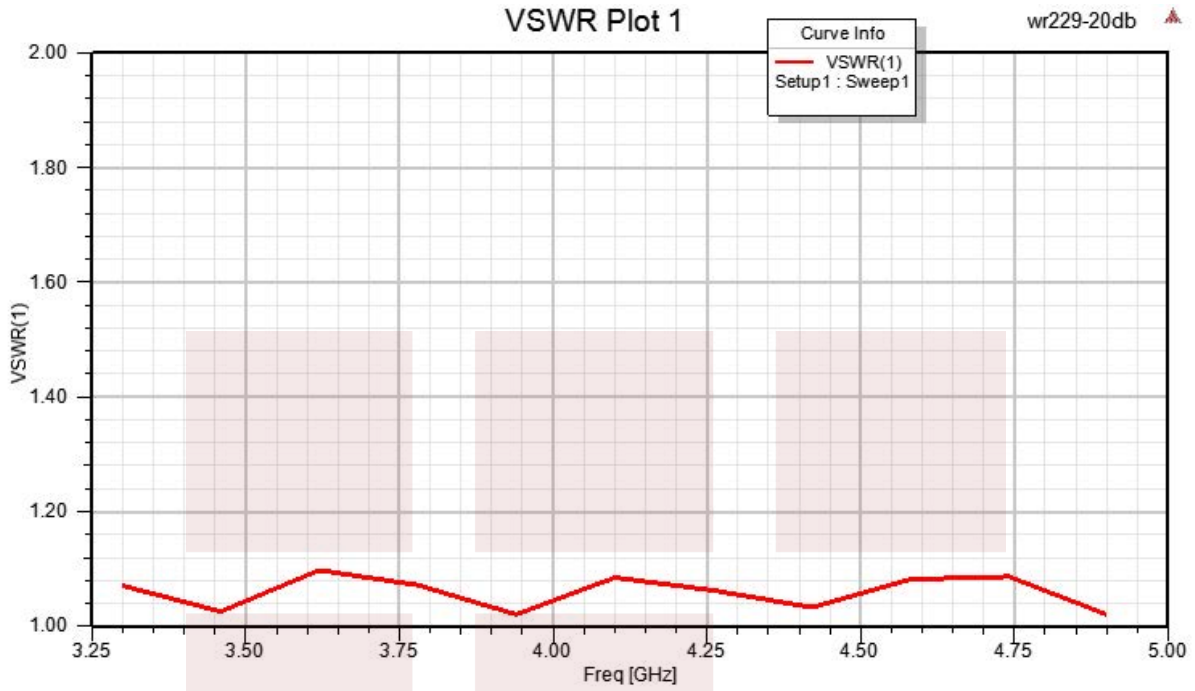
- WR-229 Rectangular Waveguide Interface
- 3.3 GHz to 4.9 GHz
- 20 dBi Nominal Gain
- CMR-229 Cover Flange
- S-C Band

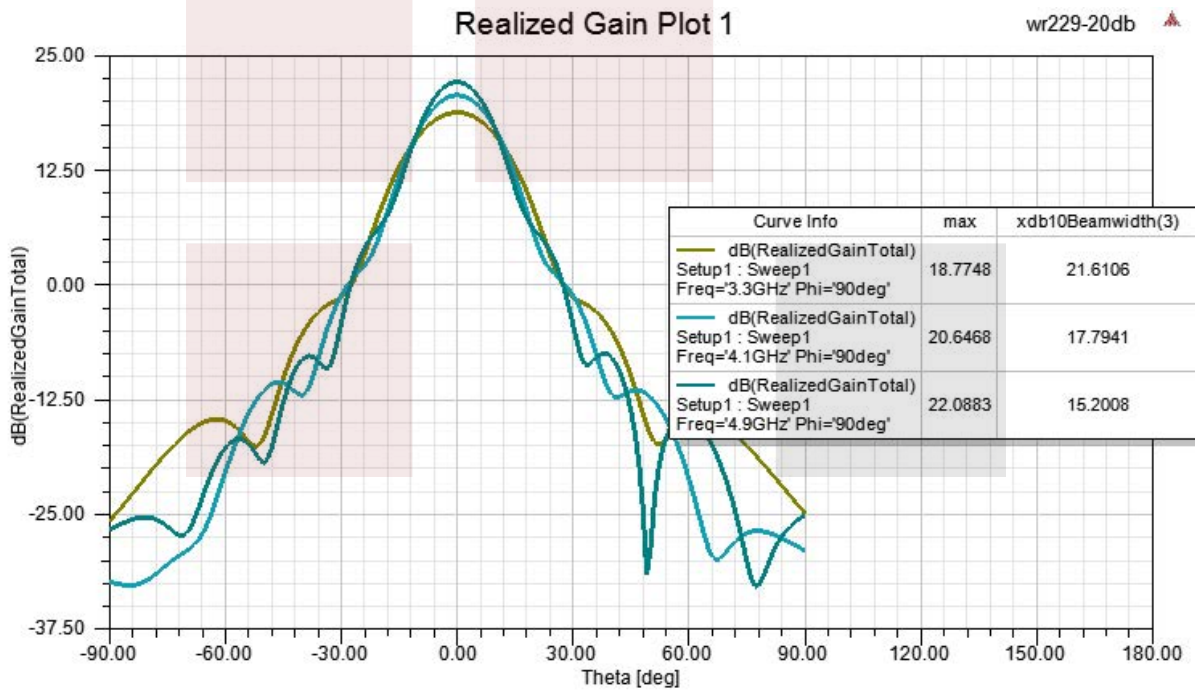
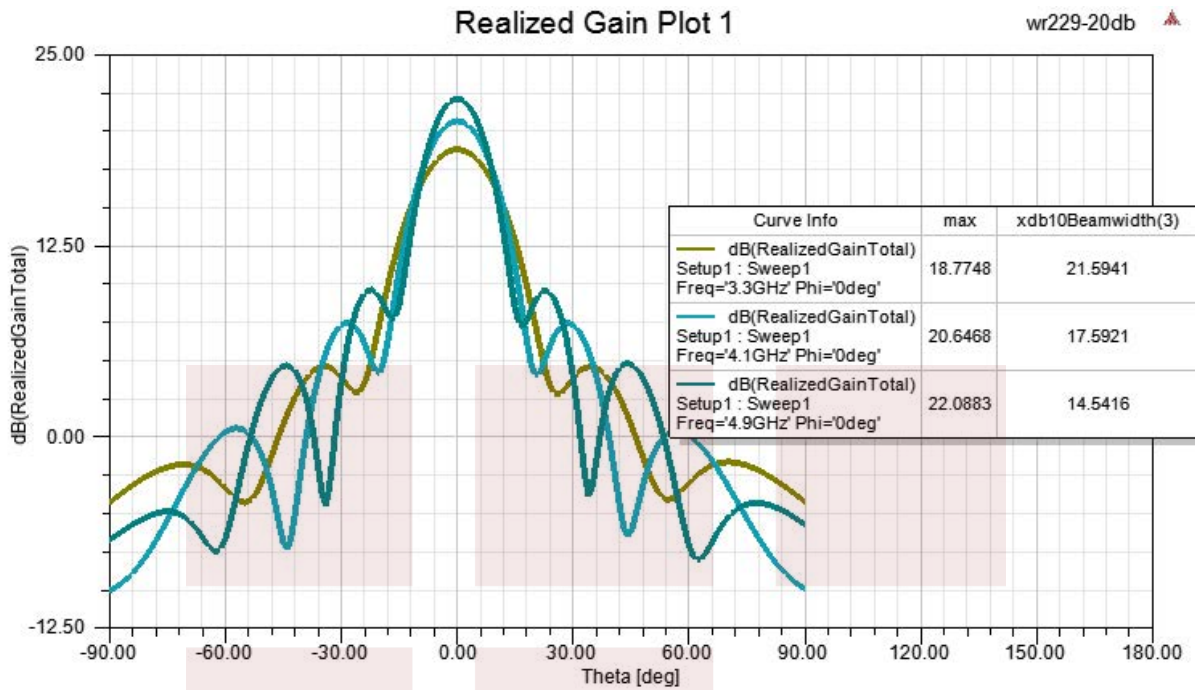
### Applications:

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

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**Typical Performance Data**



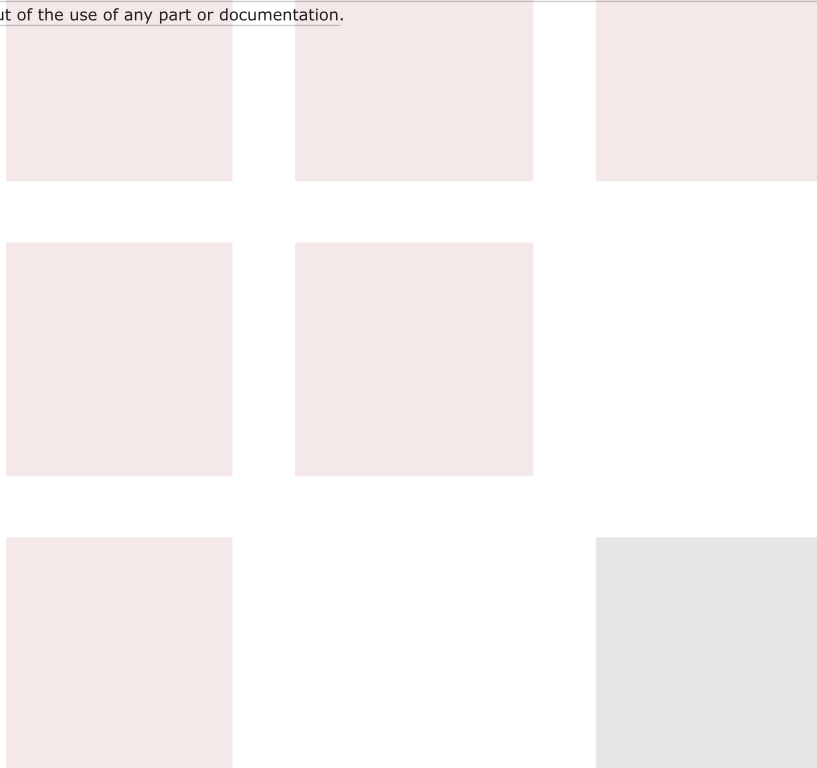


WR-229 Standard Gain Horn Antenna Operating From 3.3 GHz to 4.9 GHz, 20 dBi Nominal Gain, CMR-229 Flange from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

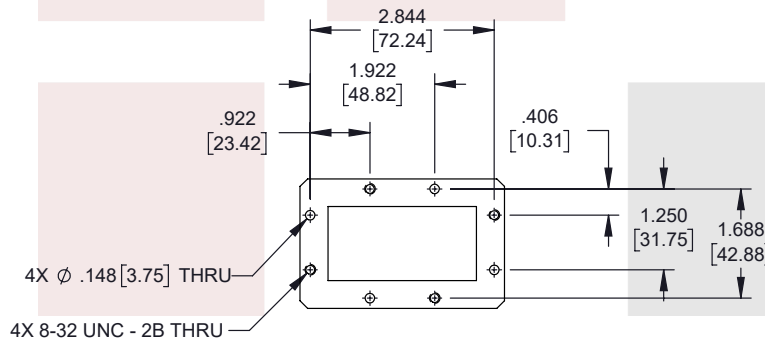
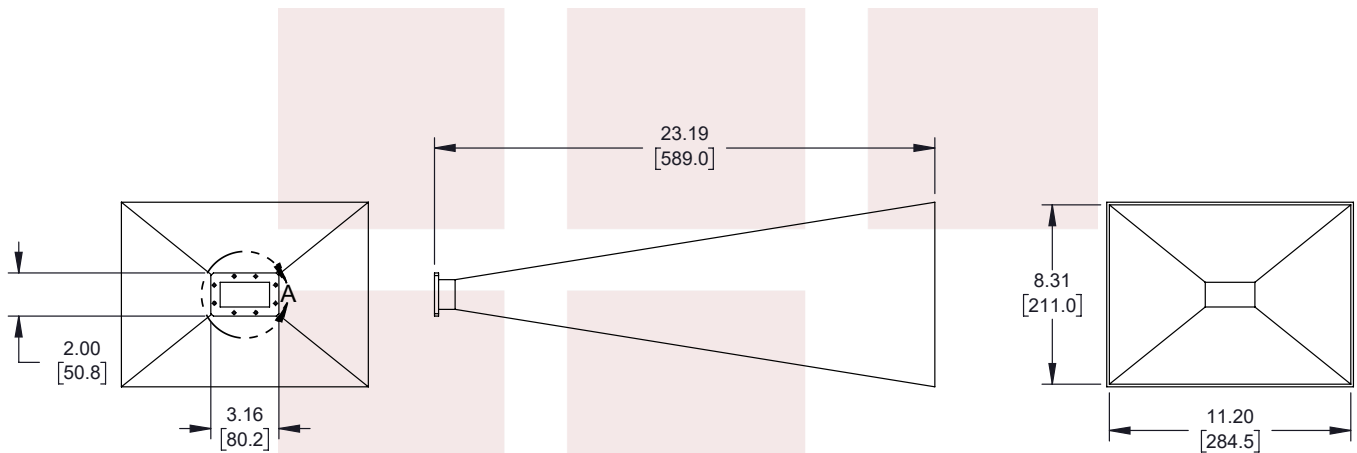
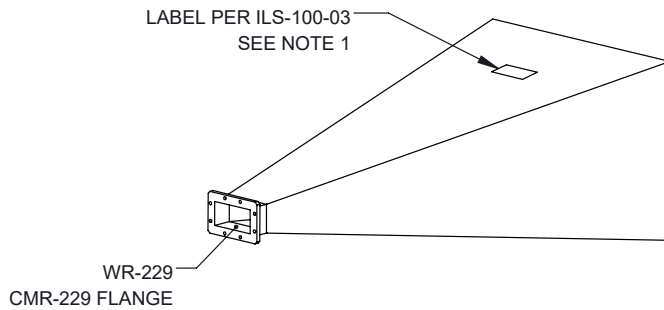
For additional information on this product, please click the following link: [WR-229 Standard Gain Horn Antenna Operating From 3.3 GHz to 4.9 GHz, 20 dBi Nominal Gain, CMR-229 Flange FMWAN229-20](#)

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	06/01/2021	KHIETPAS



DETAIL A

**NOTES:**

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

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TITLE

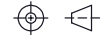
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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0
.XX = ±.02 [.51]	± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0
.XXX = ±.005 [.13]	ANGLES ± 1°	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 A	CAGE CODE 3FKR5	DRAWN BY DZINN	ITEM NO. FMWAN229-20	REV A
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