

WR-229 Standard Gain Horn with 10 dBi gain, SMA Female connector

The FMWAN229-10SF 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-229 to SMA Female waveguide to coaxial adapter and operates from 3.3 GHz to 4.9 GHz.

Our FMWAN229-10SF standard gain horn antenna has a nominal gain of 10 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 52.1 dB and 51.6 dB respectively. Fairview Microwave's SMA Female to WR-229 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FMWAN229-10SF 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-229 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.

Configuration

Design WR-229 Standard Gain Horn
Coaxial Interface SMA Female

Electrical Specifications

| Description | Min | Typ | Max | Units |
|-------------------------------------|-----|------|-------|---------|
| Frequency Range | 3.3 | | 4.9 | GHz |
| Waveguide Standard Gain Horn | | | | |
| Gain | | 10 | | dBi |
| Horizontal 3dB Beam Width | | 52.1 | | Degrees |
| Vertical 3dB Beam Width | | 51.6 | | Degrees |
| Waveguide to Coaxial Adapter | | | | |
| Input VSWR | | | 1.3:1 | |

Mechanical Specifications

Size

Length 6.134 in 155.8 mm
Width/Diameter 3.481 in 88.42 mm
Height 2.794 in 70.97 mm
Weight 0.8475 lbs 384.42 g

RF Connector

Type SMA Female

Waveguide Interface

Waveguide Size WR-229

Environmental Specifications

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

Plotted and Other Data

Notes:



Features:

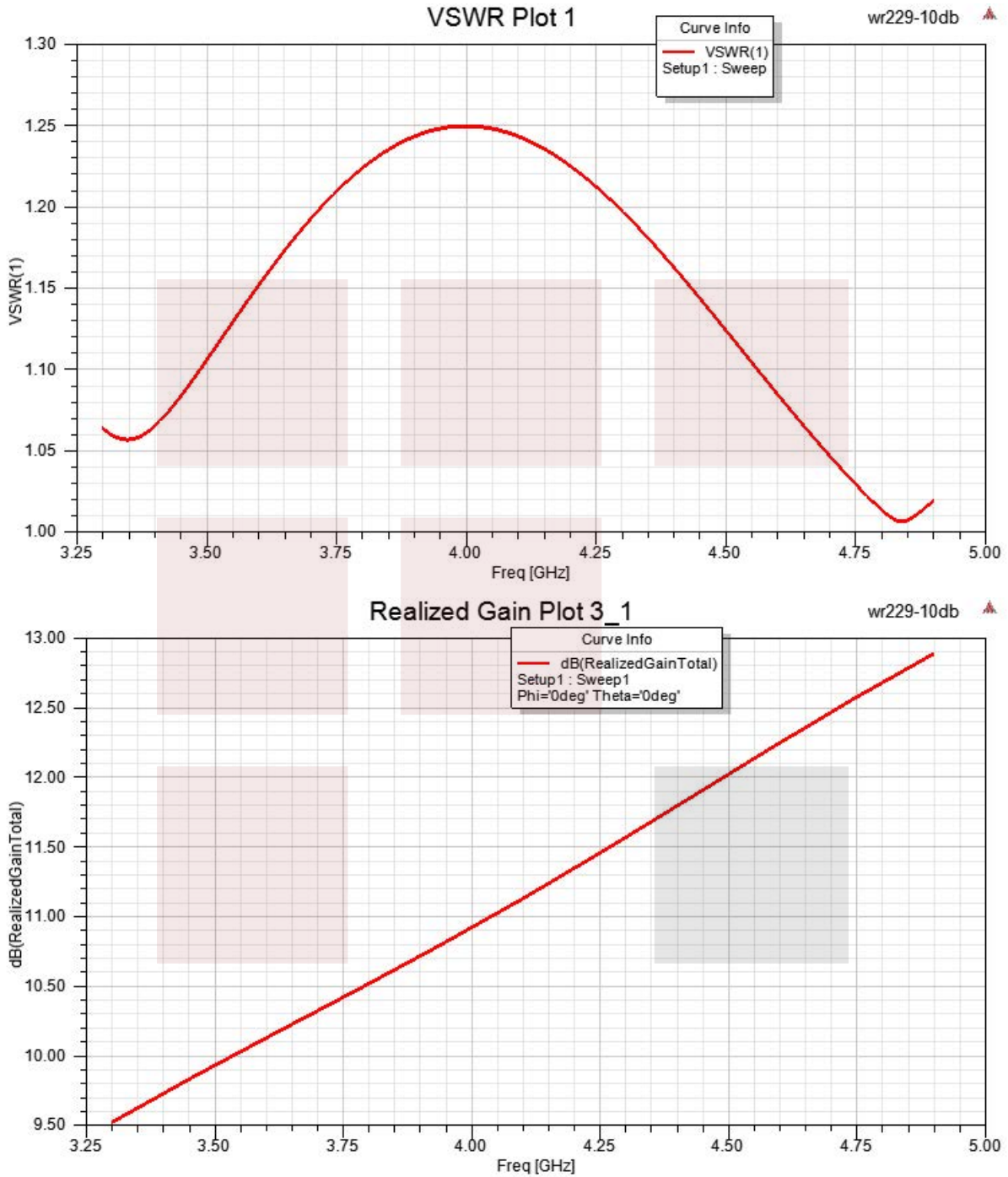
- 3.3 GHz to 4.9 GHz
- WR-229 Waveguide Band
- 10 dBi Nominal Gain
- SMA Female Connector

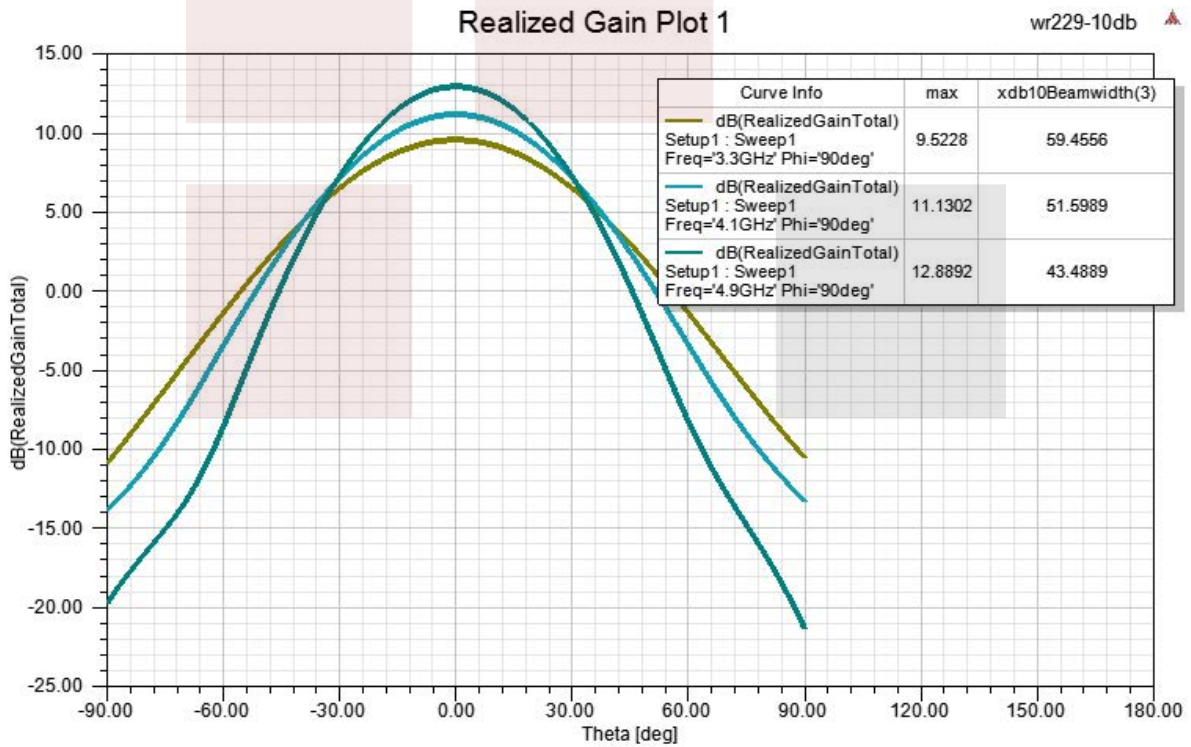
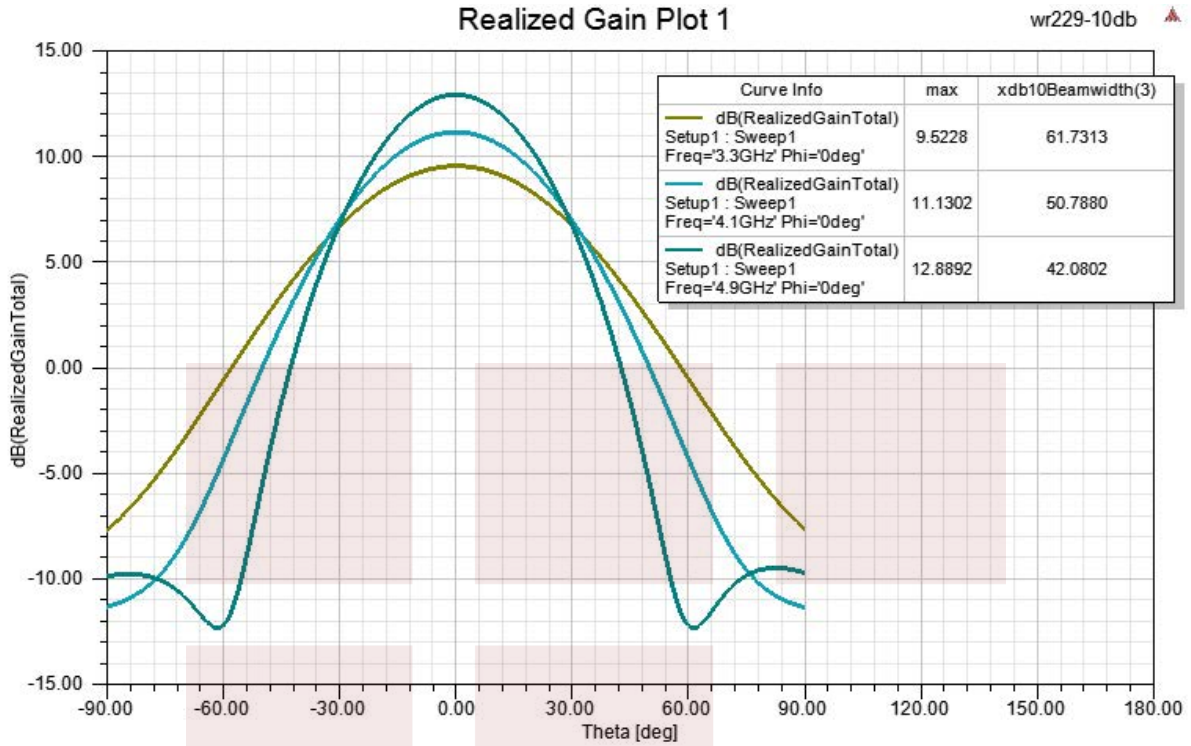
Applications:

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

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Typical Performance Data





WR-229 Standard Gain Horn with 10 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.

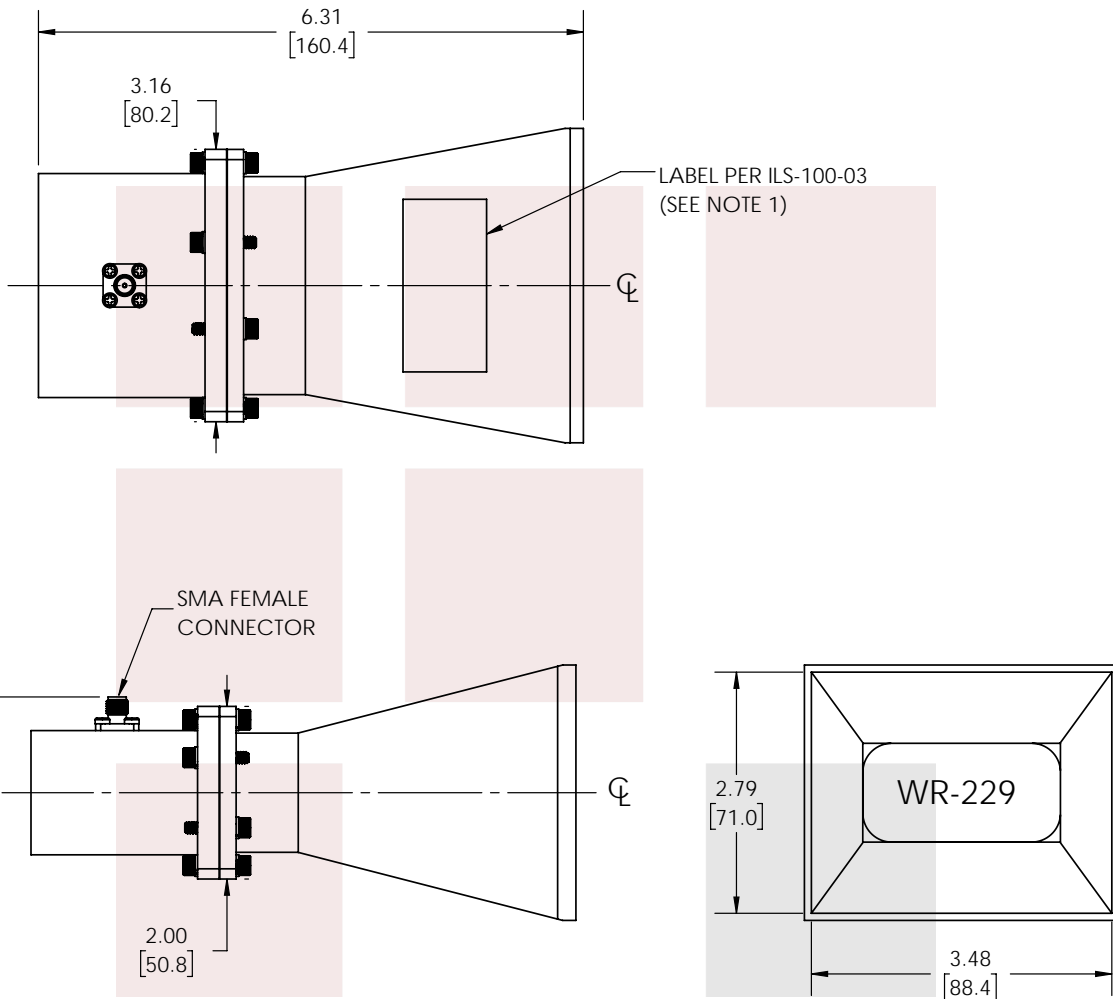
For additional information on this product, please click the following link: [WR-229 Standard Gain Horn with 10 dBi gain, SMA Female connector FMWAN229-10SF](#)

URL: <https://www.fairviewmicrowave.com/wr-229-waveguide-standard-gain-horn-antenna-0-db-pewan229-10sf-p.aspx>

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 | 10/04/2021 | KHIETPAS |



NOTES:

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

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TITLE

WR-229 Standard Gain Horn with 10 dBi gain, SMA Female connector

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

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS ± 1/32
.XX = ±.02 [.51]
.XXX = ±.005 [.13] 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 A | CAGE CODE 3FKR5 | DRAWN BY BPUCHASKI | ITEM NO. PEWAN229-10SF | REV A |
|-----------|--------------------|-----------------------|---------------------------|----------|

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