

## WR-229 Standard Gain Horn with 10 dBi gain, SMA Female Connector, Integrated Cage-Style Mount



### FM1WAN229-10SF

#### Features

- 3.3 GHz to 4.9 GHz
- WR-229 Waveguide Band
- 10 dBi Nominal Gain
- SMA Female Connector
- Ruggedized Aluminum Cage-Style Mount

#### Applications

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

#### Description

The FM1WAN229-10SF standard gain horn antenna (also known as waveguide horn) from Fairview Microwave is part of our comprehensive selection of waveguide antennas. The cage-style mount is a ruggedized aluminum mounting solution that integrates with test and measurement positioning systems, ensuring precise alignment and protection of the antenna. 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 FM1WAN229-10SF standard gain horn antenna with integrated cage-style mount 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 FM1WAN229-10SF 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
Coaxial Interface	SMA Female

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	3.3		4.9	GHz
Gain		10		
Horizontal Half Power Beam Width		52.1		Degrees
Vertical Half Power Beam Width		51.6		Degrees
<b>Waveguide to Coaxial Adapter</b>				
VSWR			1.3:1	

#### Mechanical Specifications

<b>Size</b>	
Length	8.75 in [222.25 mm]
Width	5.12 in [130.05 mm]
Height	5.25 in [133.35 mm]
Weight	5.1 lbs [2.31 kg]

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**FM1WAN229-10SF**

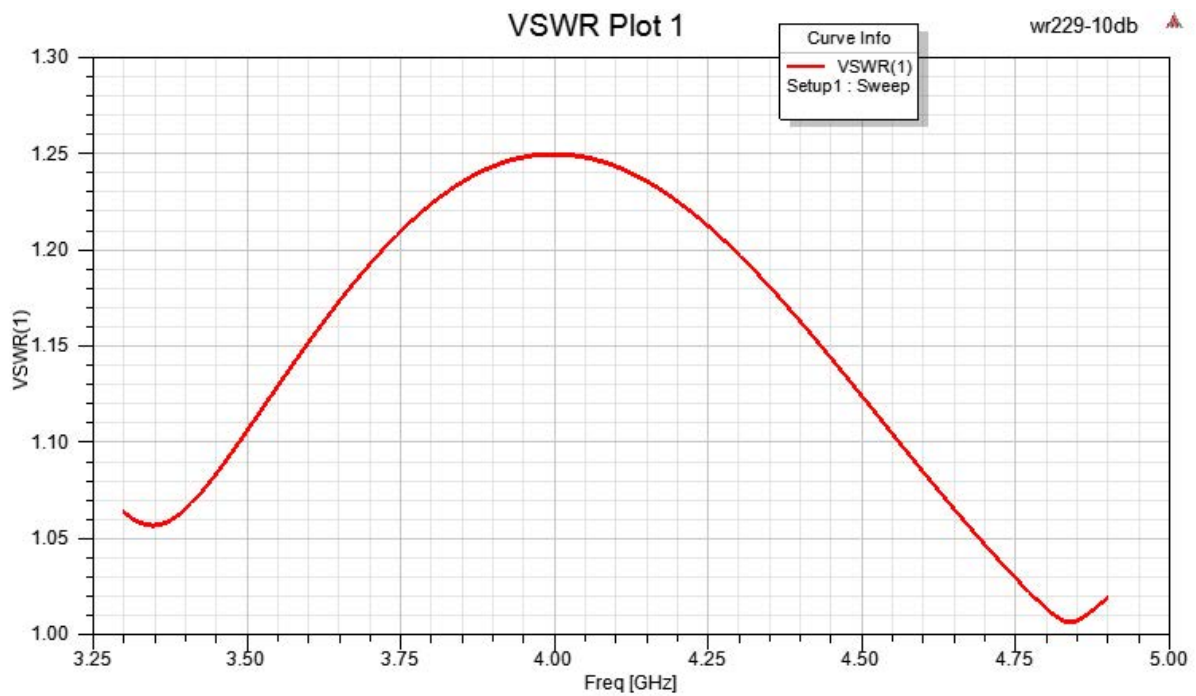
<b>RF Connector</b>	
Type	SMA Female
<b>Waveguide Interface</b>	
Waveguide Size	WR-229

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

**Plotted and Other Data**

Notes:

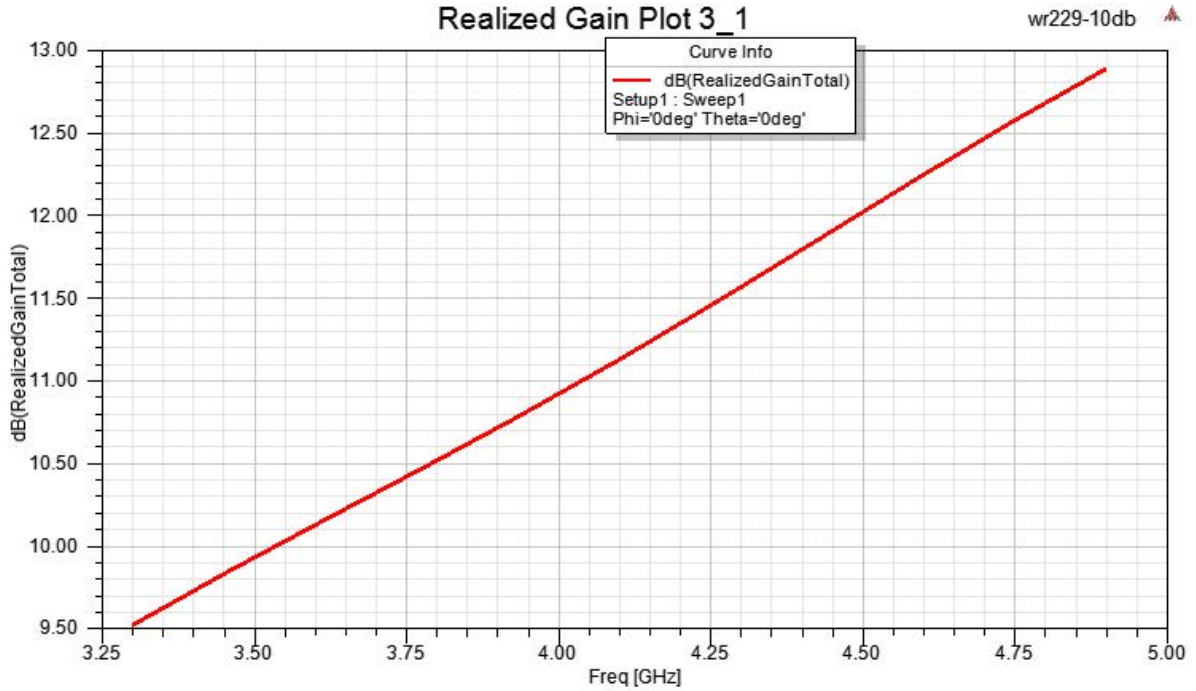
**Typical Performance Data**



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Female Connector, Integrated Cage-Style Mount



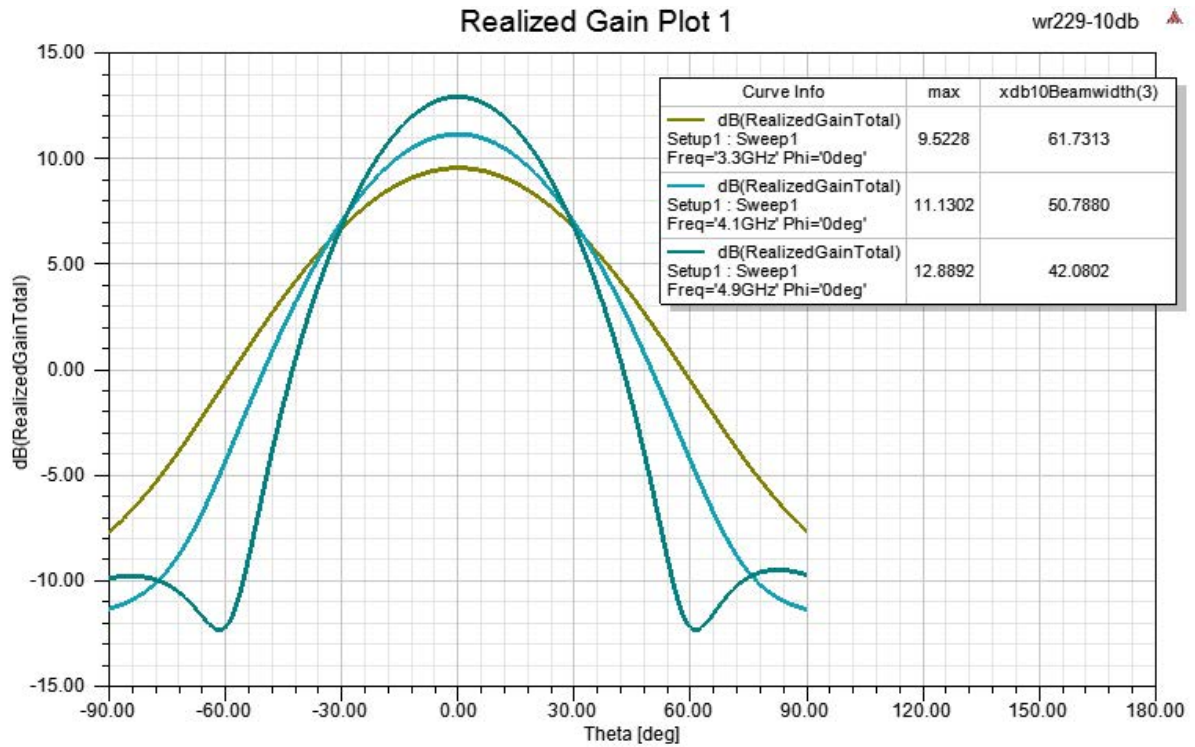
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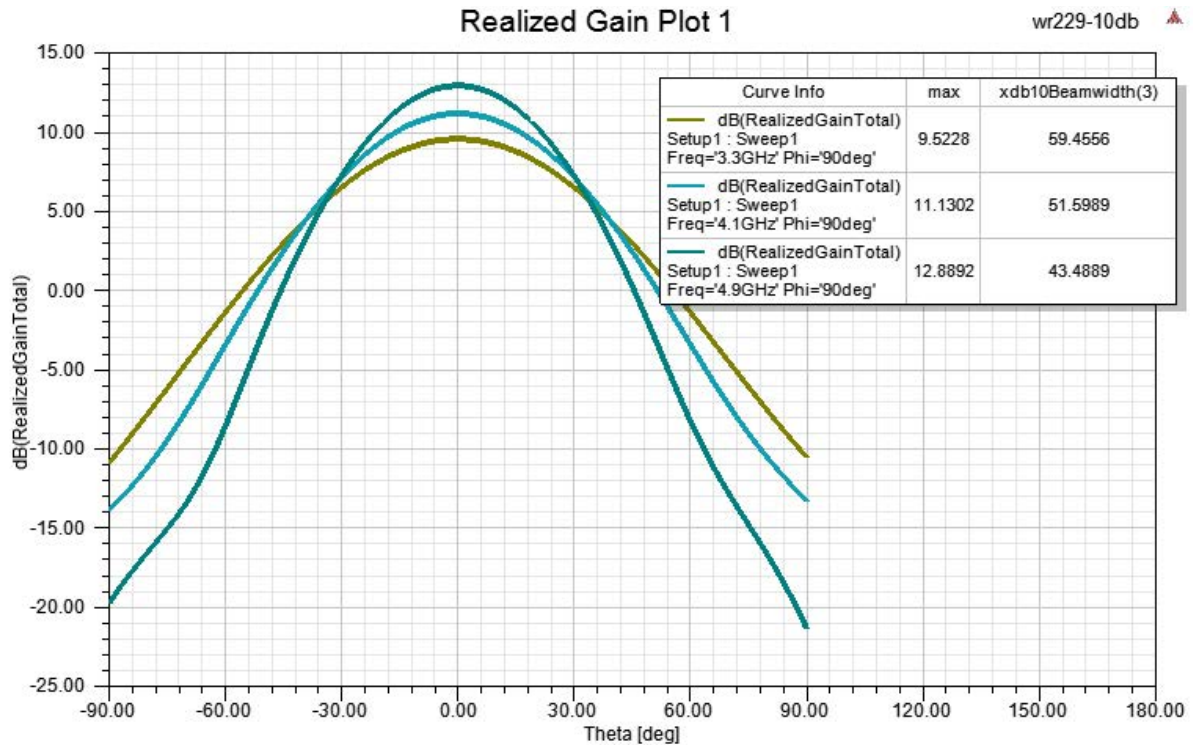
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WR-229 Standard Gain Horn with 10 dBi gain, SMA Female Connector, Integrated Cage-Style Mount from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified 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, Integrated Cage-Style Mount FM1WAN229-10SF](https://www.fairviewmicrowave.com/wr-229-standard-gain-horn-10-dbi-sma-fm1wan229-10sf-p.aspx)

URL: <https://www.fairviewmicrowave.com/wr-229-standard-gain-horn-10-dbi-sma-fm1wan229-10sf-p.aspx>

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# FM1WAN229-10SF CAD Drawing

WR-229 Standard Gain Horn with 10 dBi gain, SMA Female Connector, Integrated Cage-Style Mount

