

## WR-112 Standard Gain Horn with 15 dBi gain, SMA Female Connector, Integrated Cage-Style Mount



### FM1WAN112-15SF

#### Features

- 7.05 GHz to 10 GHz
- WR-112 Waveguide Band
- 15 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 FM1WAN112-15SF 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-112 to SMA Female waveguide to coaxial adapter and operates from 7.05 GHz to 10 GHz.

Our FM1WAN112-15SF standard gain horn antenna with integrated cage-style mount has a nominal gain of 15 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 31 dB and 32 dB respectively. Fairview Microwave's SMA Female 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 FM1WAN112-15SF 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 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		15		
Horizontal Half Power Beam Width		31		Degrees
Vertical Half Power Beam Width		32		Degrees
<b>Waveguide to Coaxial Adapter</b>				
VSWR			1.3:1	

#### Mechanical Specifications

<b>Size</b>	
Length	7.2 in [182.88 mm]
Width	4.33 in [109.98 mm]
Height	4.9 in [124.46 mm]
Weight	1.47 lbs [666.78 g]

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### RF Connector

Type SMA Female

### Waveguide Interface

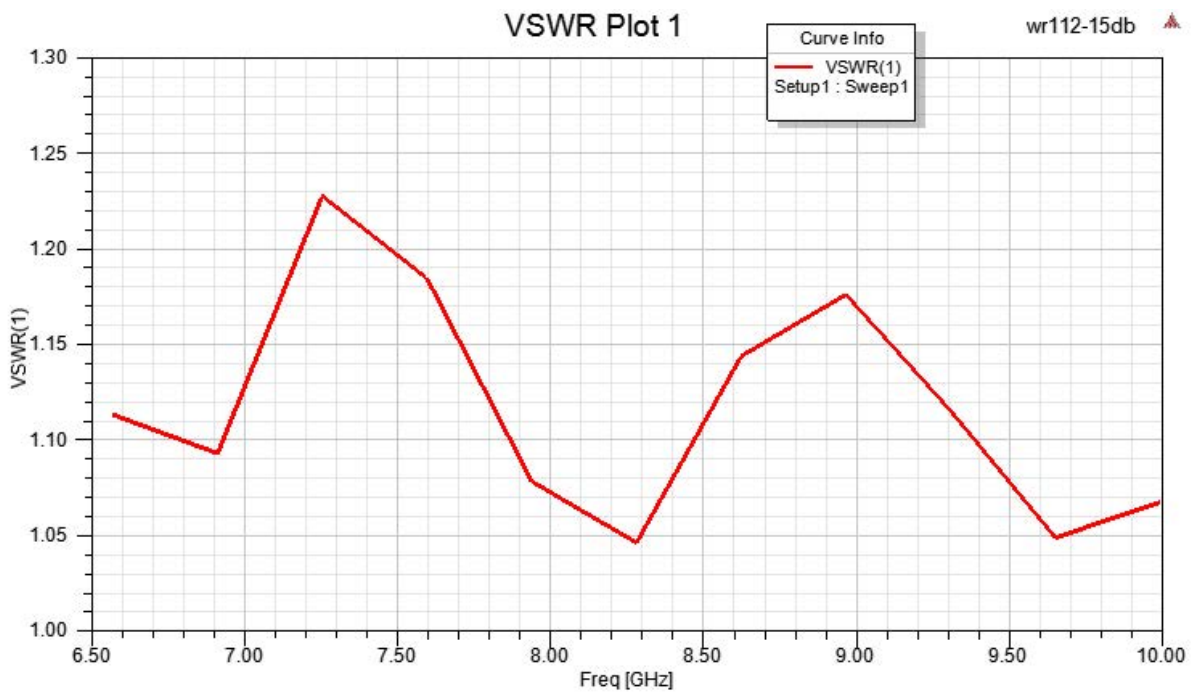
Waveguide Size WR-112

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

### Plotted and Other Data

Notes:

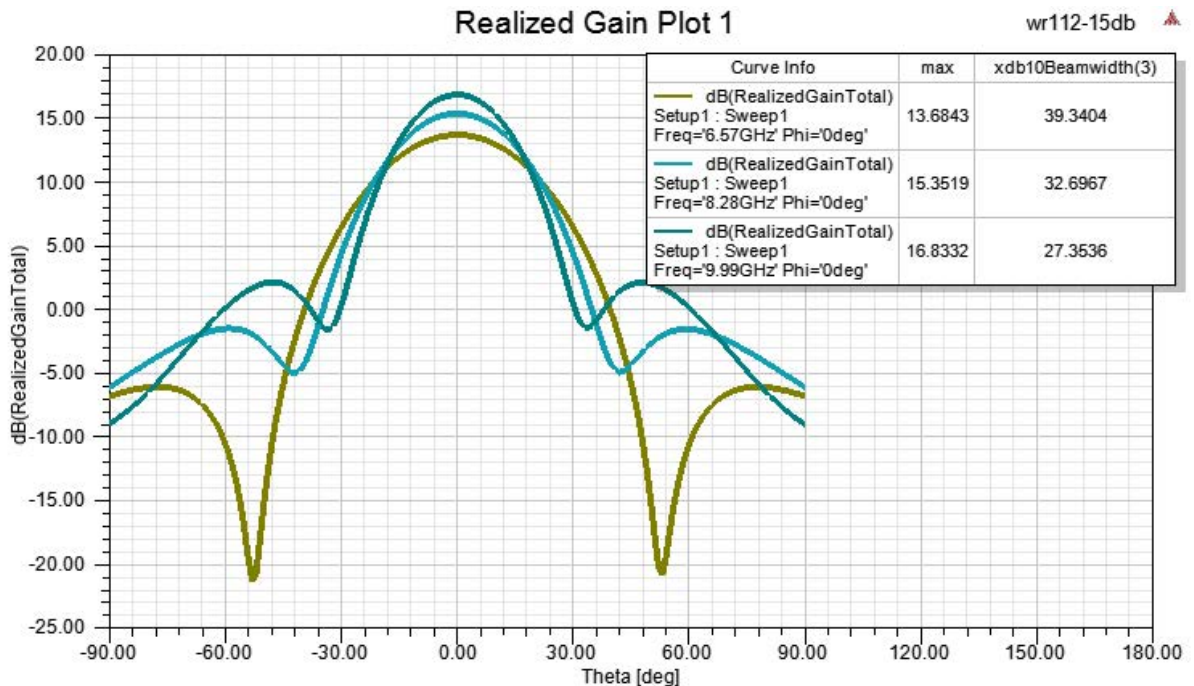
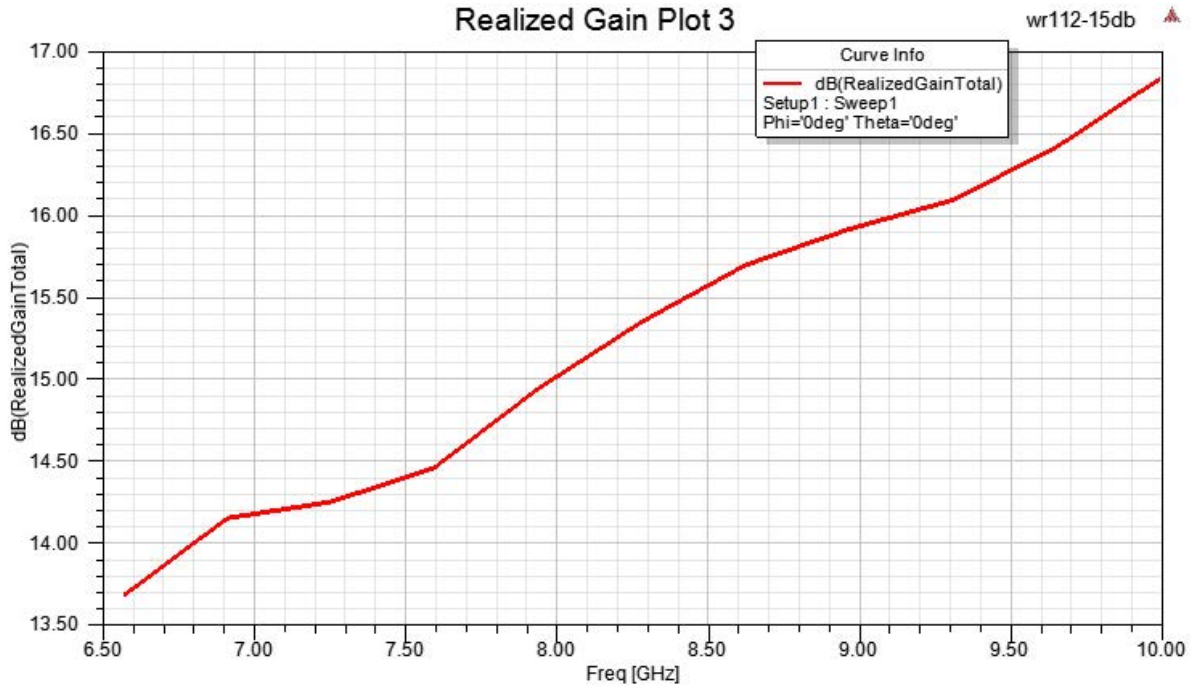
### Typical Performance Data



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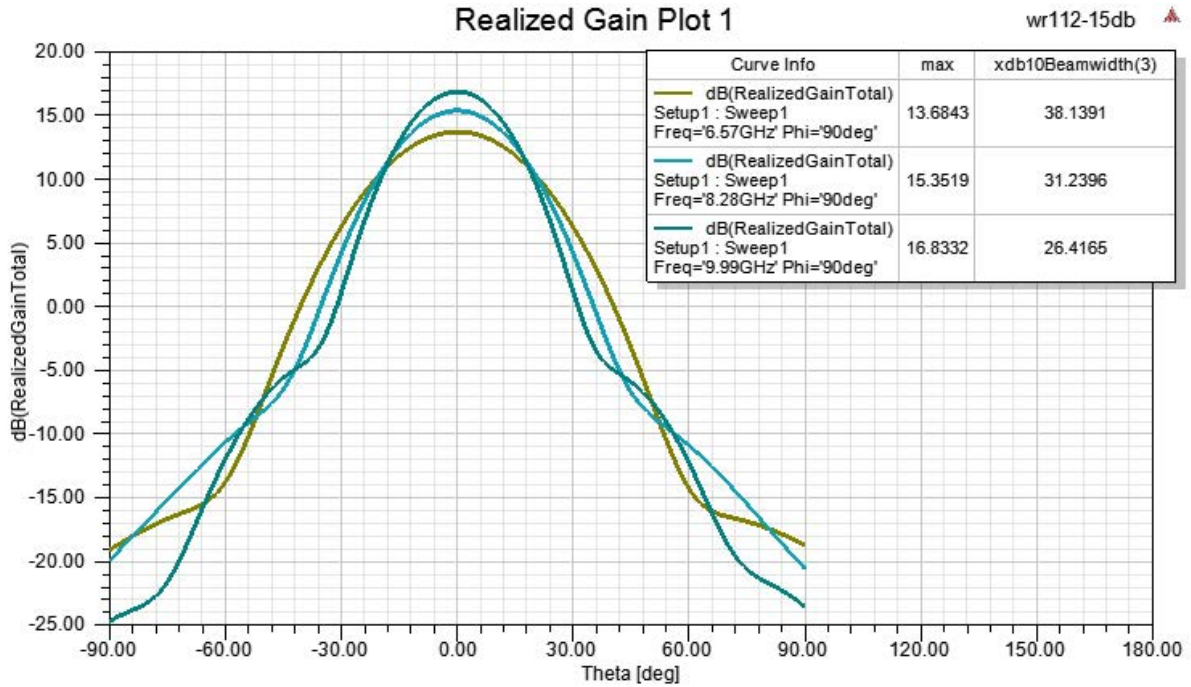
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WR-112 Standard Gain Horn with 15 dBi gain, SMA Female Connector, Integrated Cage-Style Mount from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-112 Standard Gain Horn with 15 dBi gain, SMA Female Connector, Integrated Cage-Style Mount FM1WAN112-15SF](#)

URL: <https://www.fairviewmicrowave.com/wr-112-standard-gain-horn-15-dbi-sma-fm1wan112-15sf-p.aspx>

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# FM1WAN112-15SF CAD Drawing

WR-112 Standard Gain Horn with 15 dBi gain, SMA Female Connector, Integrated Cage-Style Mount

