

WR-90 Standard Gain Horn with 20 dBi gain, End Launch SMA Female connector, Integrated Cage-Style Mount

FM1WAN090-20ELSF



Features

- 8.2 GHz to 12.4 GHz
- WR-90 Waveguide Band
- 20 dBi Nominal Gain
- SMA Female End Launch Connector
- Ruggedized Aluminum Cage-Style Mount
- Integrates with Positioning Systems

Applications

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

Description

The FM1WAN090-20ELSF standard gain horn antenna with integrated cage-style mount (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-90 to SMA Female End Launch waveguide to coaxial adapter and operates from 8.2 GHz to 12.4 GHz.

Our FM1WAN090-20ELSF standard gain horn antenna with integrated cage-style mount has a nominal gain of 20 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 17.5 dB and 17.3 dB respectively. Fairview Microwave's SMA Female End Launch to WR-90 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FM1WAN090-20ELSF 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-90 waveguide antennas with SMA Female End Launch 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-90
Coaxial Interface	SMA Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	8.2		12.4	GHz
Waveguide Standard Gain Horn		20		
Gain				
Horizontal Half Power Beam Width		17.5		Degrees
Vertical Half Power Beam Width		17.3		Degrees

Mechanical Specifications

Size	
Length	4.724 in [119.99 mm]
Width	4.724 in [119.99 mm]
Height	12.72 in [323.09 mm]
Weight	1.18355 lbs [536.85 g]

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RF Connector

Type
Specification

SMA Female
End Launch

Waveguide Interface

Waveguide Size

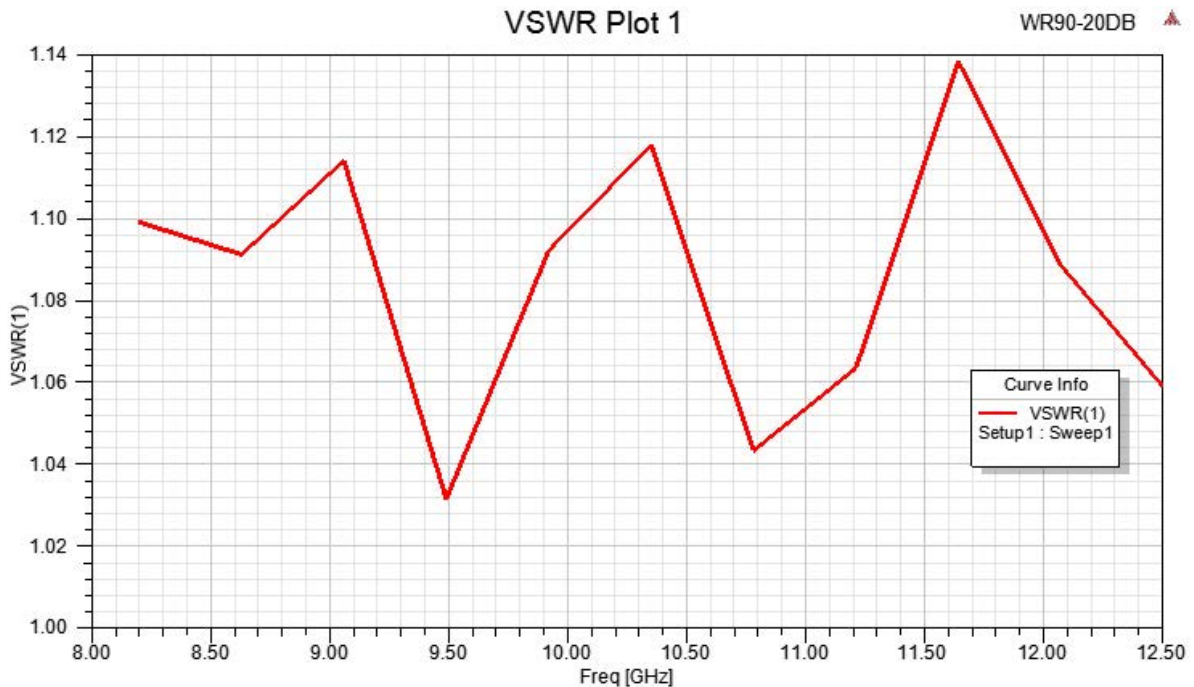
WR-90

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

Plotted and Other Data

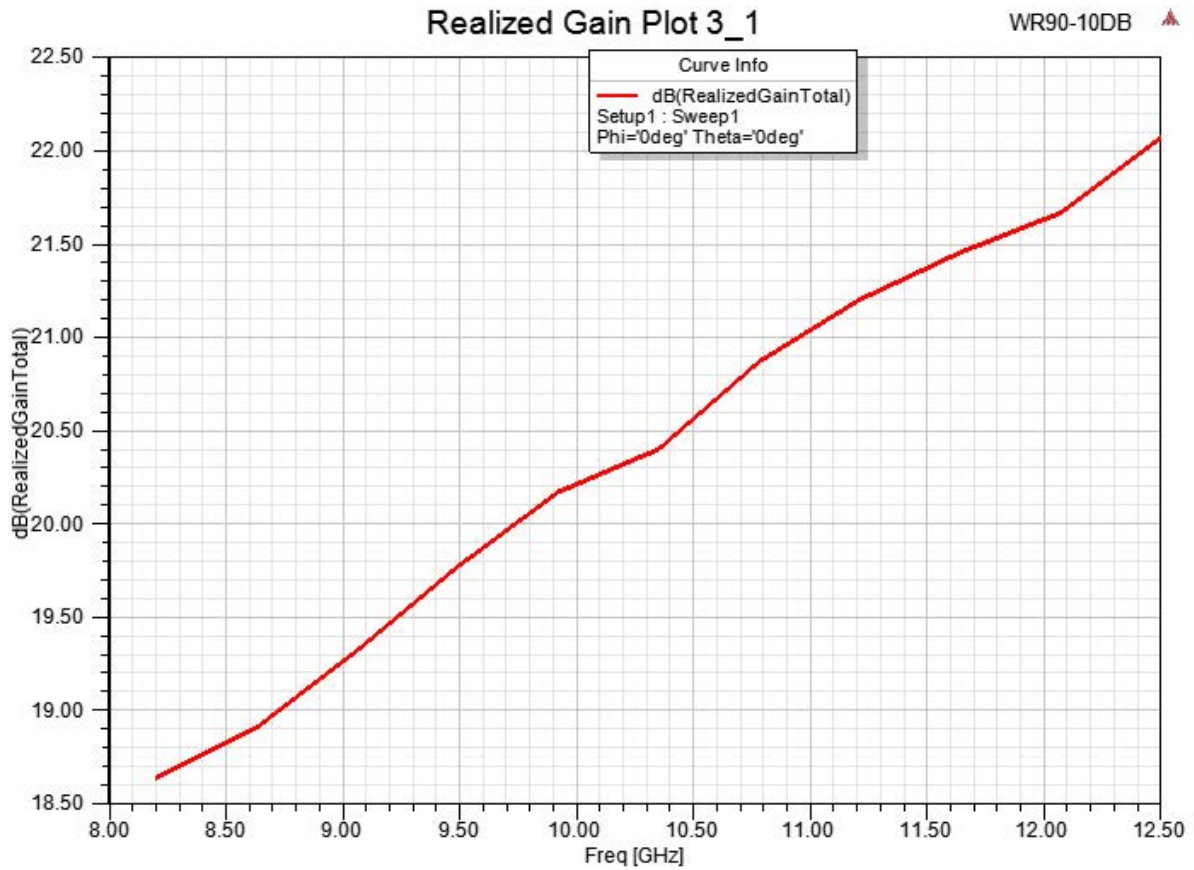
Notes:

Typical Performance Data



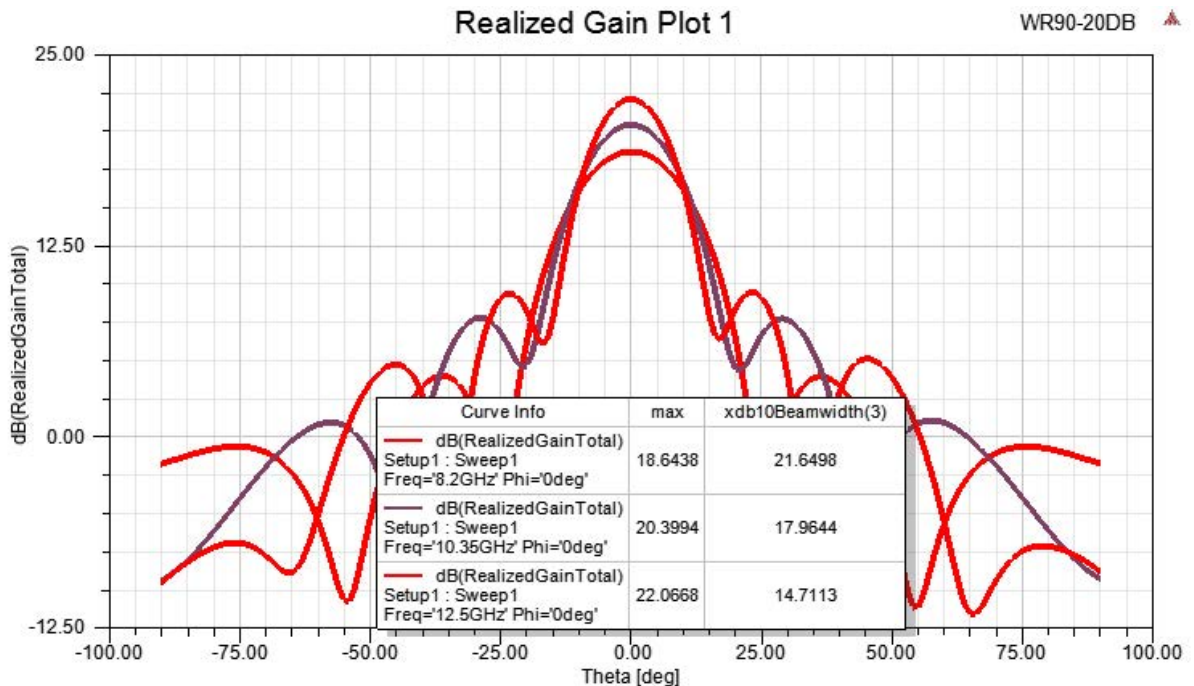
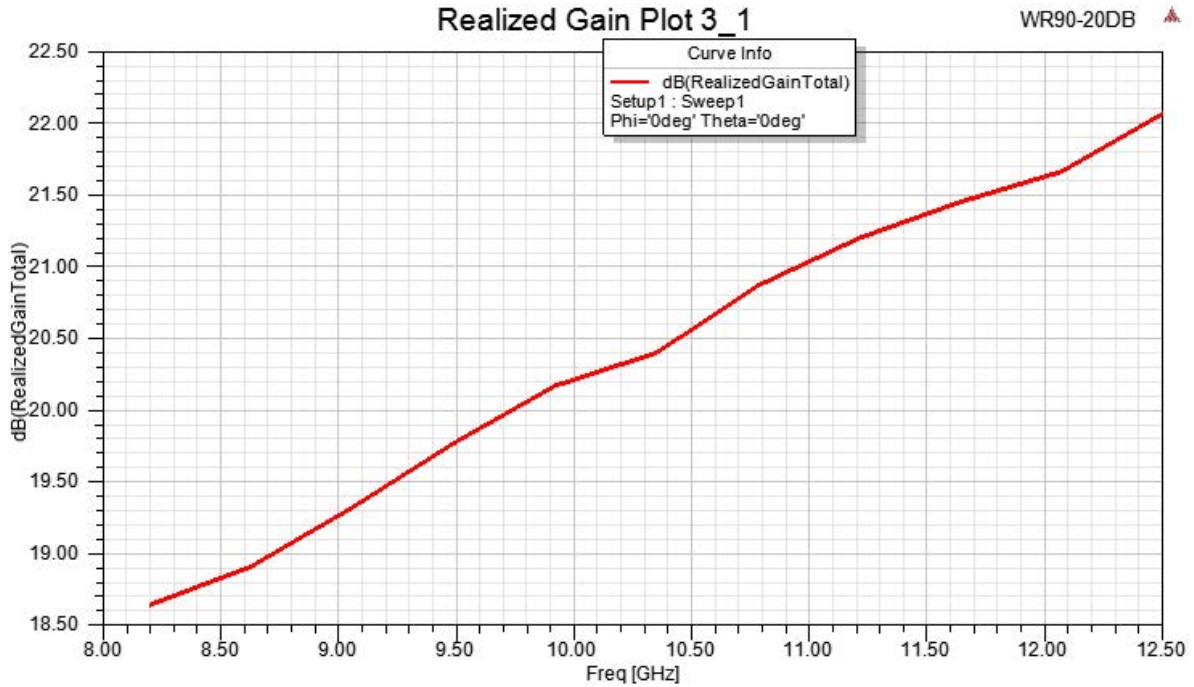
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WR-90 Standard Gain Horn with 20 dBi gain, End Launch SMA Female connector, Integrated Cage-Style Mount from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-90 Standard Gain Horn with 20 dBi gain, End Launch SMA Female connector, Integrated Cage-Style Mount FM1WAN090-20ELSF](https://www.fairviewmicrowave.com/wr-90-standard-gain-horn-with-20-dbi-gain-end-launch-sma-female-connector-integrated-cage-style-mount-fm1wan090-20elsf-p.aspx)

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FM1WAN090-20ELSF CAD Drawing

WR-90 Standard Gain Horn with 20 dBi gain, End Launch SMA Female connector, Integrated Cage-Style Mount

