

WR-42 Standard Gain Horn with 20 dBi gain, 2.92mm Female connector, Integrated Cage-Style Mount

FM1WAN042-20KF



Features

- 18 GHz to 26.5 GHz
- WR-42 Waveguide Band
- 20 dBi Nominal Gain
- 2.92mm Female 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 FM1WAN042-20KF 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-42 to 2.92mm Female waveguide to coaxial adapter and operates from 18 GHz to 26.5 GHz.

Our FM1WAN042-20KF 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 2.92mm Female to WR-42 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FM1WAN042-20KF 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-42 waveguide antennas with 2.92mm 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-42
Coaxial Interface	2.92mm Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	18		26.5	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	7.64 in [194.06 mm]
Weight	0.8115 lbs [368.09 g]

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RF Connector

Type 2.92mm Female

Waveguide Interface

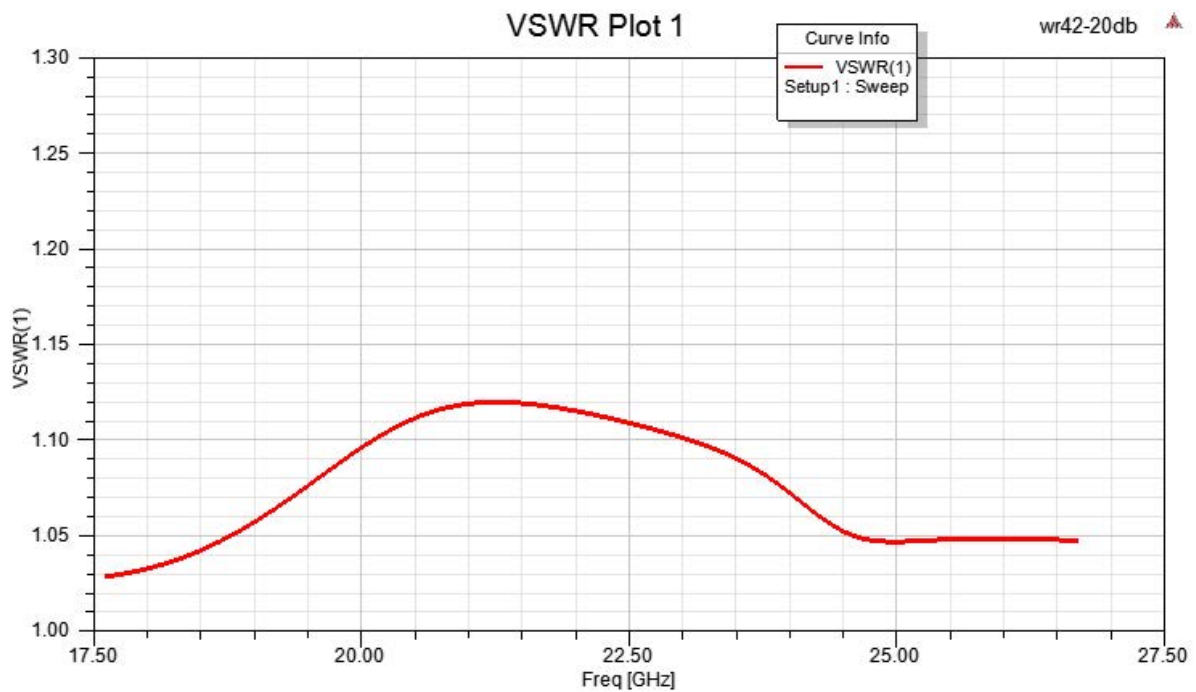
Waveguide Size WR-42

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

Plotted and Other Data

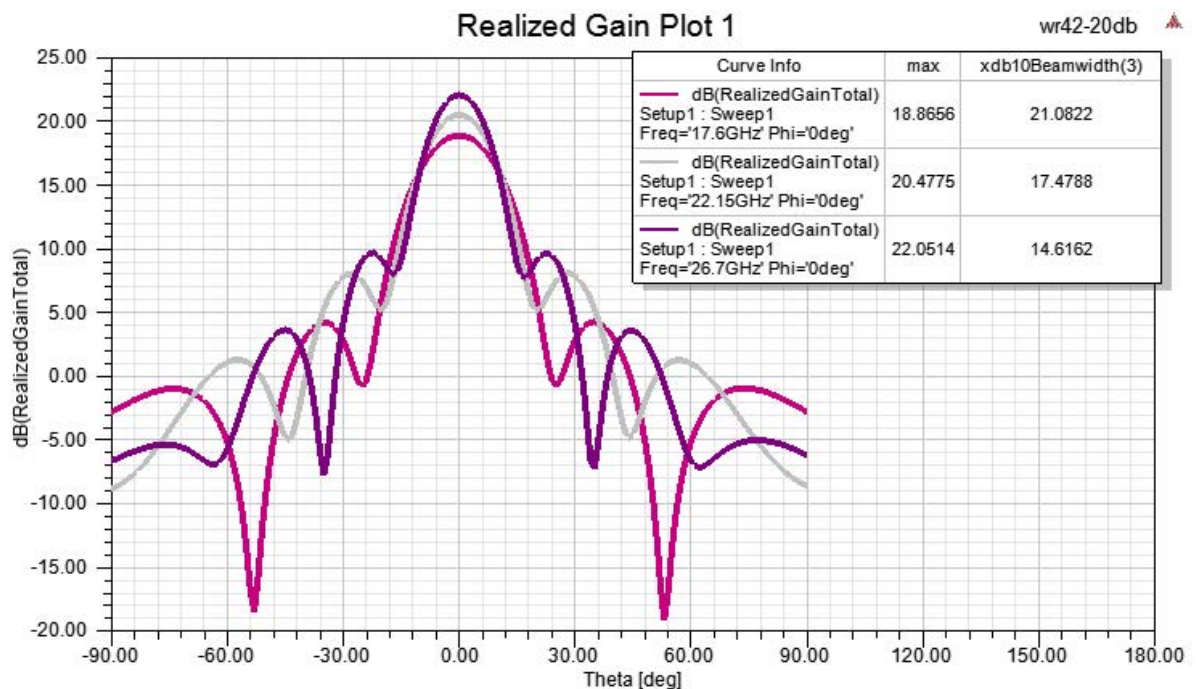
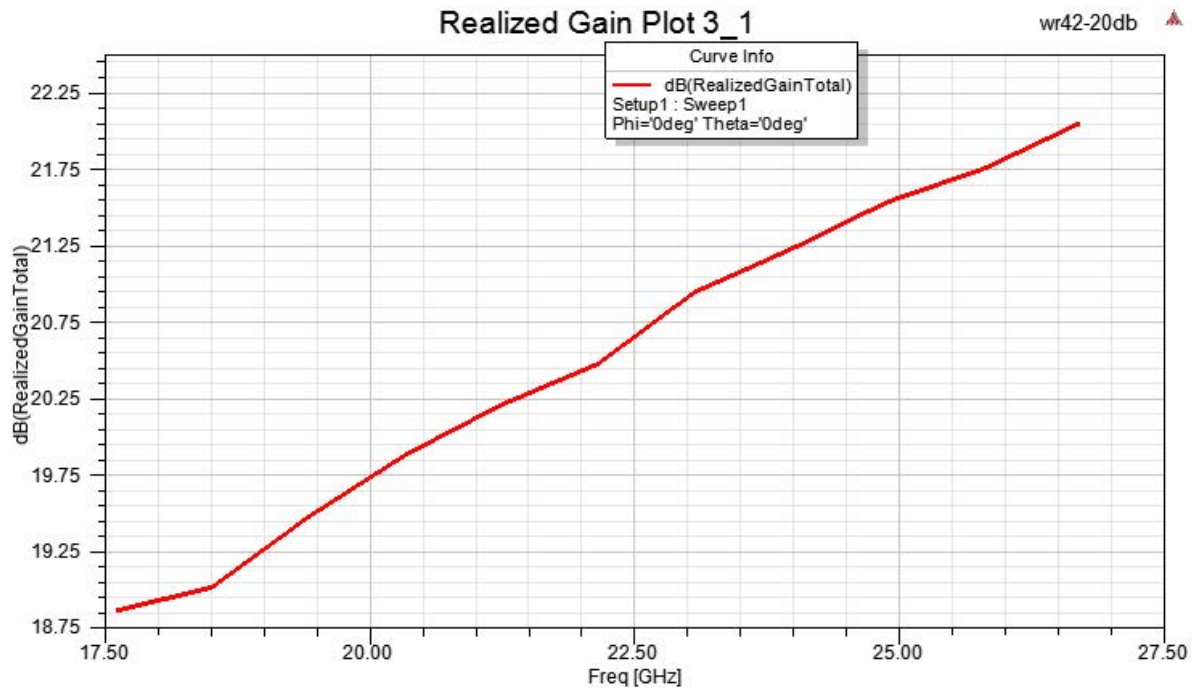
Notes:

Typical Performance Data



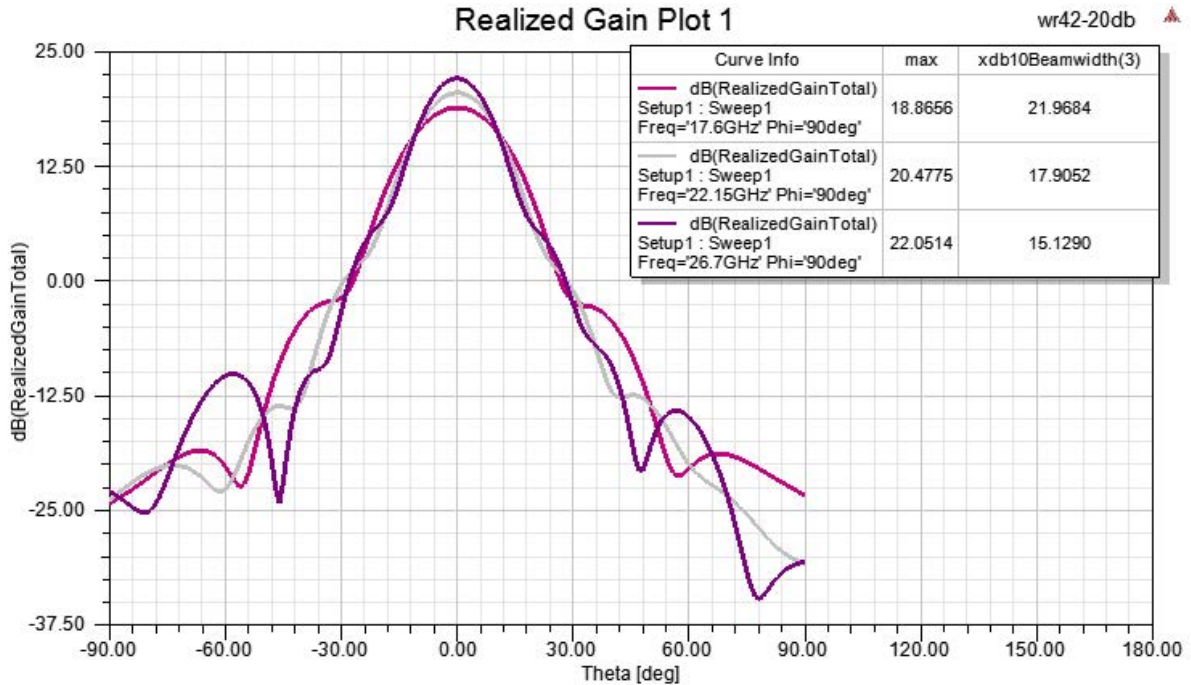
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WR-42 Standard Gain Horn with 20 dBi gain, 2.92mm Female connector, Integrated Cage-Style Mount from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-42 Standard Gain Horn with 20 dBi gain, 2.92mm Female connector, Integrated Cage-Style Mount FM1WAN042-20KF](#)

URL: <https://www.fairviewmicrowave.com/wr-42-standard-gain-horn-with-20-dbi-gain-2.92mm-female-connector-integrated-cage-style-mount-fm1wan042-20kf-p.aspx>

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FM1WAN042-20KF CAD Drawing

WR-42 Standard Gain Horn with 20 dBi gain, 2.92mm Female connector, Integrated Cage-Style Mount

