

WR-112 Waveguide Standard Gain Horn Antenna Operating from 7.05 GHz to 10 GHz 20 dBi Gain with UG-51/U-Square Flange and Cage Style Mount

FM1WAN112-20



Features

- WR-112 Rectangular Waveguide Interface
- 7.05 GHz to 10 GHz
- 20 dBi Nominal Gain
- UG-51/U-Square Flange
- Ruggedized Aluminum Cage-Style Mount
- H Band

Applications

- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems

Description

The FM1WAN112-20 H Band standard gain horn antenna (also known as waveguide horn) from Fairview Microwave has a nominal gain of 20 dBi. This WR-112 standard gain horn has a UG-51/U-Square type flange and integrated cage-style mount. The mount is a ruggedized aluminum mounting solution that integrates with test and measurement positioning systems, ensuring precise alignment and protection of the antenna. The Fairview Microwave 20 dBi WR-112 horn antenna operates from 7.05 GHz to 10 GHz. The WR-112 FM1WAN112-20 waveguide horn is powder coated aluminum for added protection and corrosion resistance. It is part of over 40,000 RF, microwave and millimeter wave components available from Fairview Microwave.

Waveguide standard gain horn antennas are used in a wide variety of applications due to their high power handling capability, low loss, high directivity, and near constant electrical performance. Fairview Microwave's WR-112 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Our WR-112 standard gain horn antennas can ship worldwide the same day as it is purchased as with our other available RF parts.

Configuration

Design	WR-112
Polarization	Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	7.05		10	GHz
Nominal Gain		20		dB
Horizontal Half Power Beam Width		17.5		Degrees
Vertical Half Power Beam Width		17.3		Degrees
VSWR		1.3:1		

Mechanical Specifications

Size	
Length	9.43 in [239.52 mm]
Width	4.33 in [109.98 mm]
Height	10.44 in [265.18 mm]
Weight	0.88 lbs [399.16 g]

Waveguide Interface

Waveguide Size	WR-112
Flange Type	Square Cover

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Flange Designation
Body Material and Plating

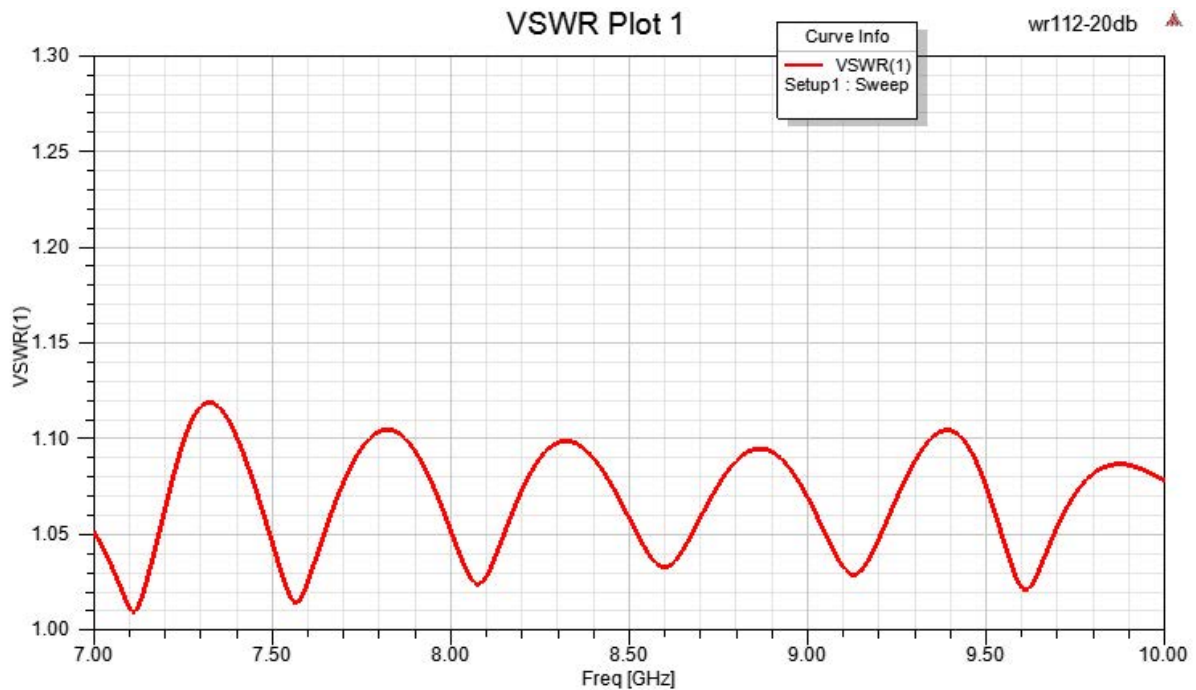
UG-51
Aluminum, Gray

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

Plotted and Other Data

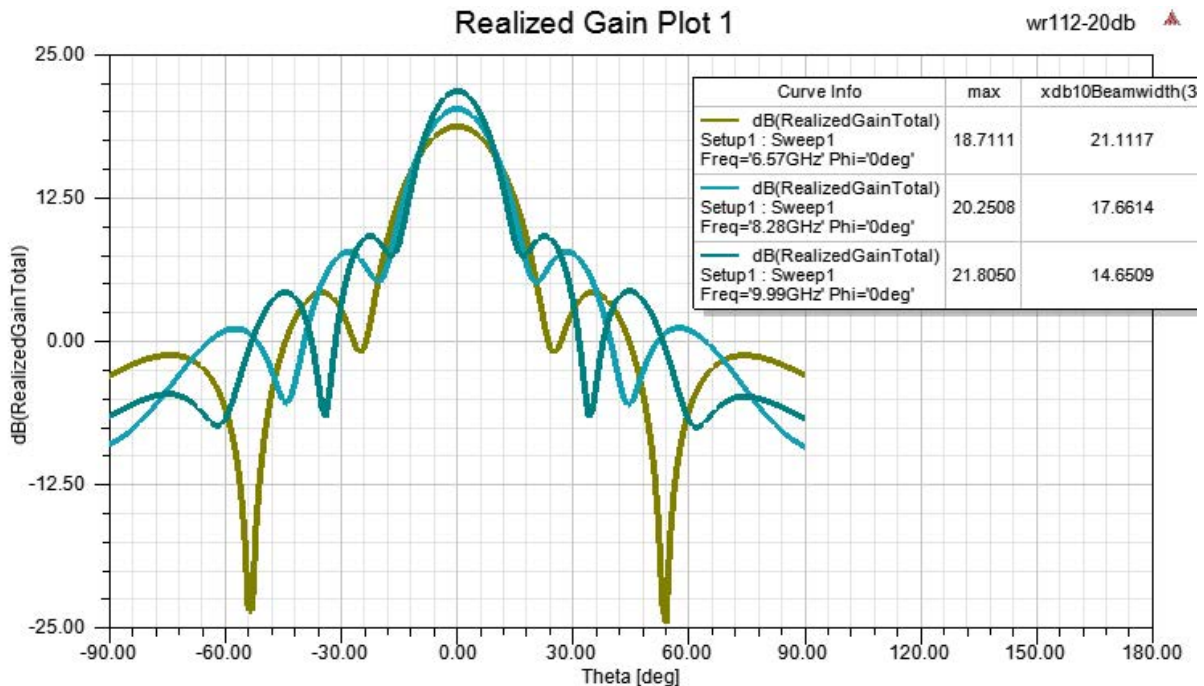
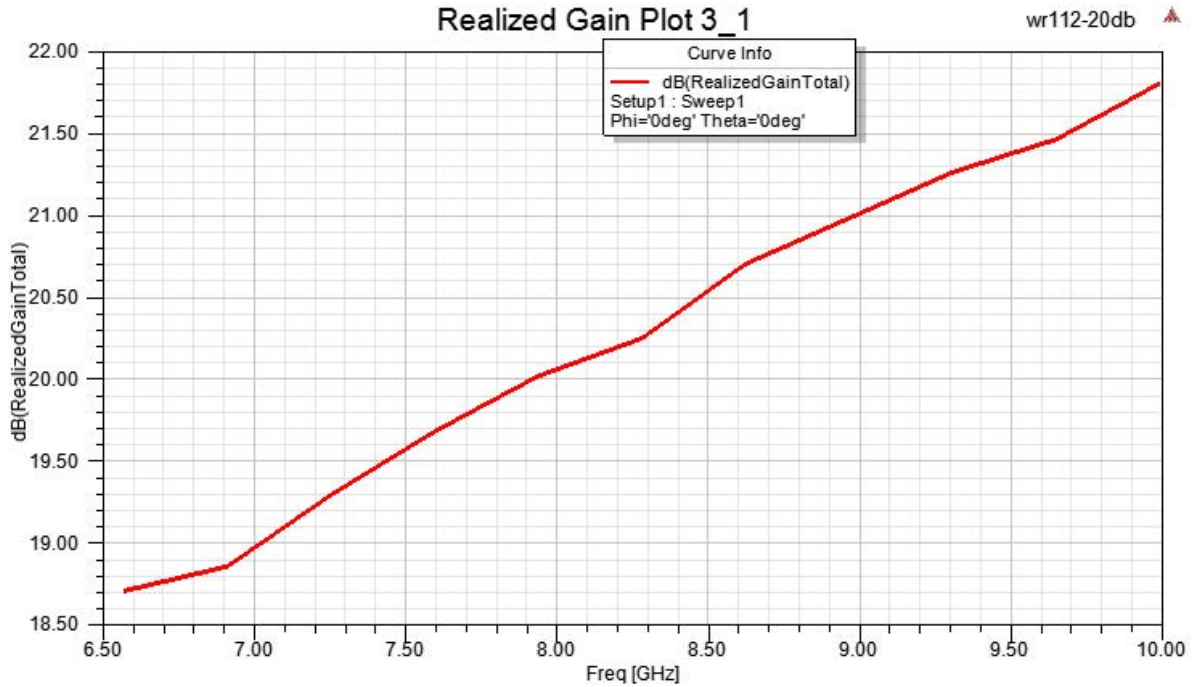
Notes:

Typical Performance Data



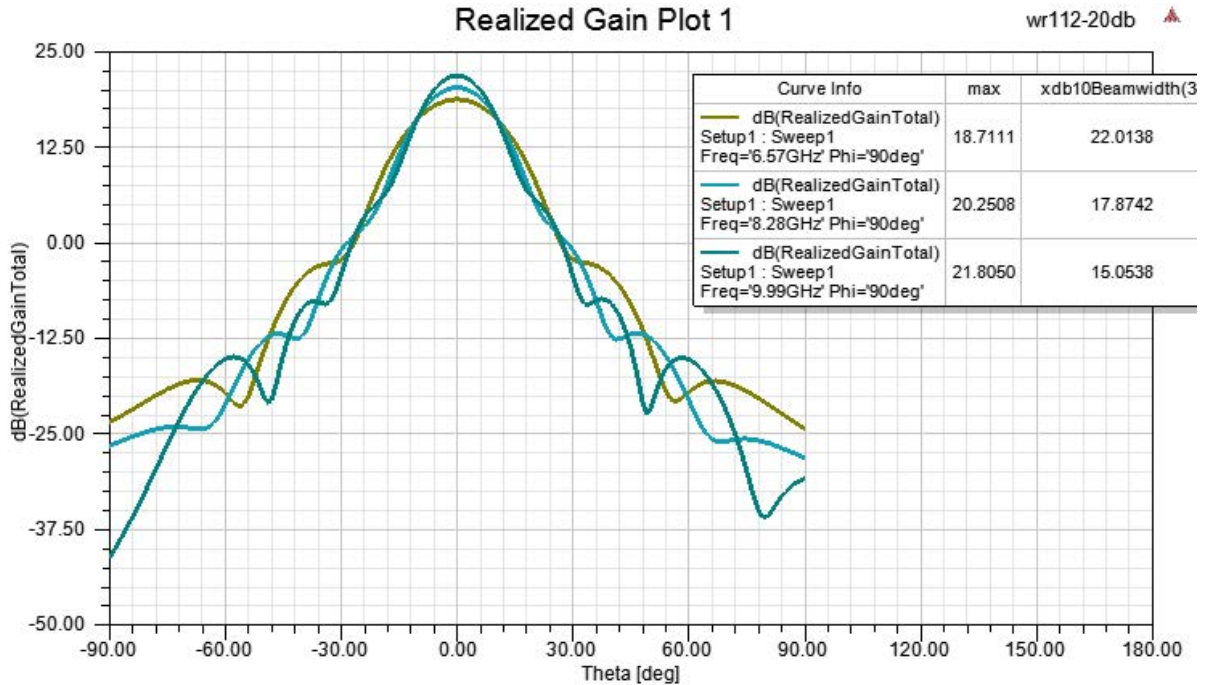
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WR-112 Waveguide Standard Gain Horn Antenna Operating from 7.05 GHz to 10 GHz 20 dBi Gain with UG-51/U-Square Flange and Cage Style Mount from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available 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 Waveguide Standard Gain Horn Antenna Operating from 7.05 GHz to 10 GHz 20 dBi Gain with UG-51/U-Square Flange and Cage Style Mount FM1WAN112-20](https://www.fairviewmicrowave.com/wr-112-waveguide-standard-gain-horn-20-db-cprg-fm1wan112-20-p.aspx)

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The information contained within 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 liability arising out of the use of any part or document.

FM1WAN112-20 CAD Drawing

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