

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



**FM1WAN112-10**

**Features**

- WR-112 Rectangular Waveguide Interface
- 7.05 GHz to 10 GHz
- 10 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 FM1WAN112-10 H Band standard gain horn antenna (also known as waveguide horn) from Fairview Microwave has a nominal gain of 10 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 10 dBi WR-112 horn antenna operates from 7.05 GHz to 10 GHz. The WR-112 FM1WAN112-10 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		10		dB
Horizontal Half Power Beam Width		52.1		Degrees
Vertical Half Power Beam Width		51.6		Degrees
VSWR		1.3:1		

**Mechanical Specifications**

<b>Size</b>	
Length	6.83 in [173.48 mm]
Width	4.33 in [109.98 mm]
Height	3.15 in [80.01 mm]
Weight	1.37 lbs [621.42 g]

**Waveguide Interface**

Waveguide Size	WR-112
Flange Type	Square Cover

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Flange Designation  
Body Material and Plating

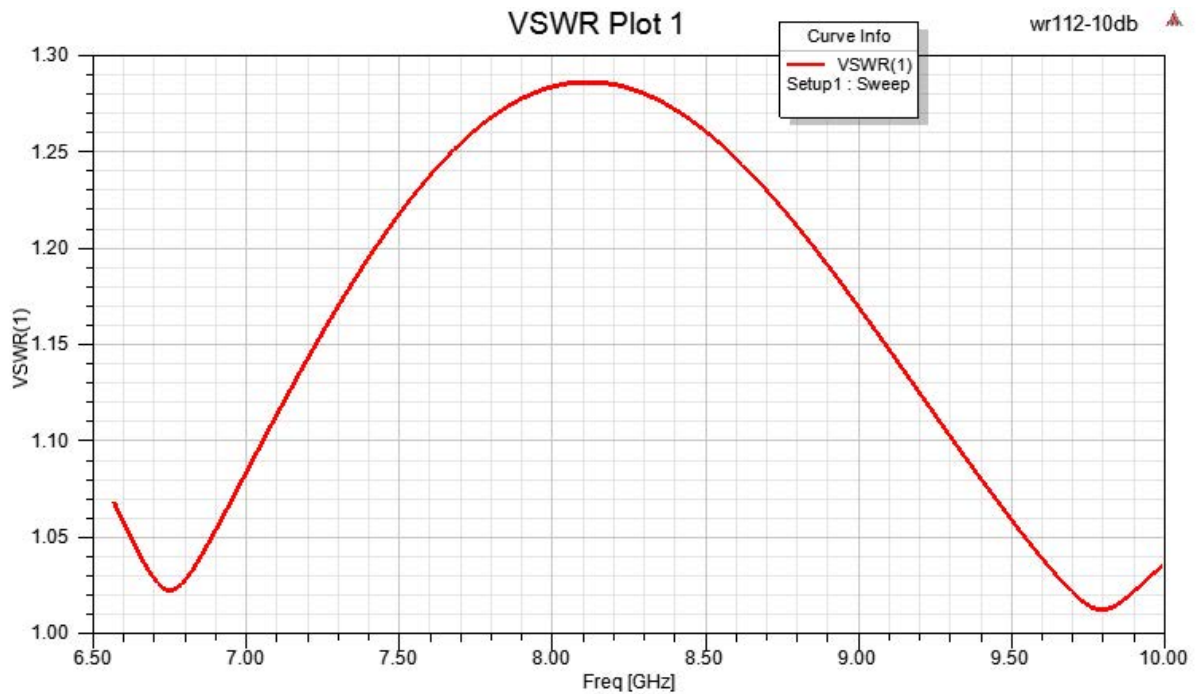
UG-51  
Aluminum, Gray

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

**Plotted and Other Data**

Notes:

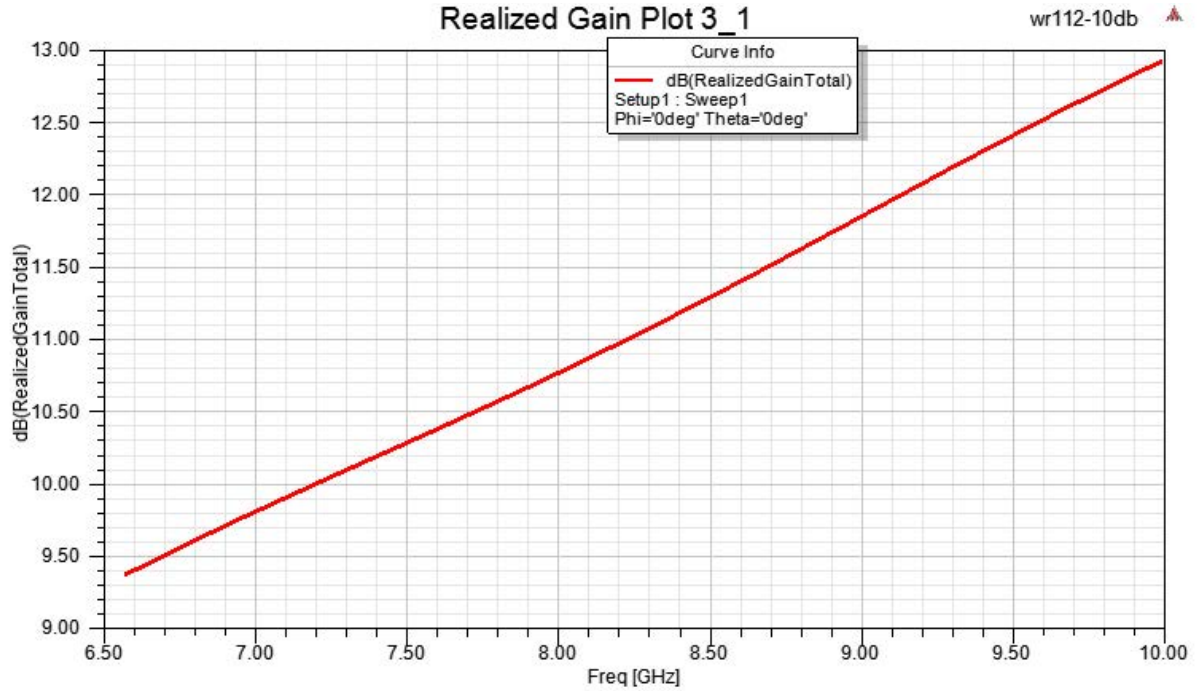
**Typical Performance Data**



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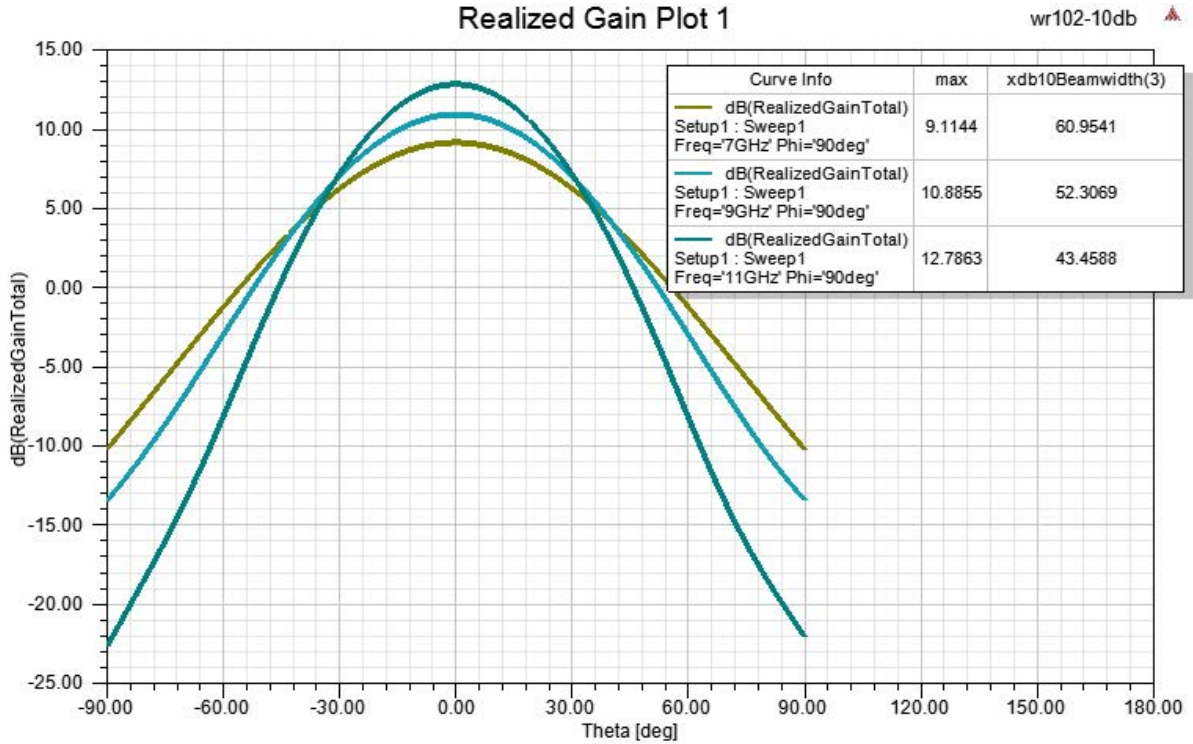
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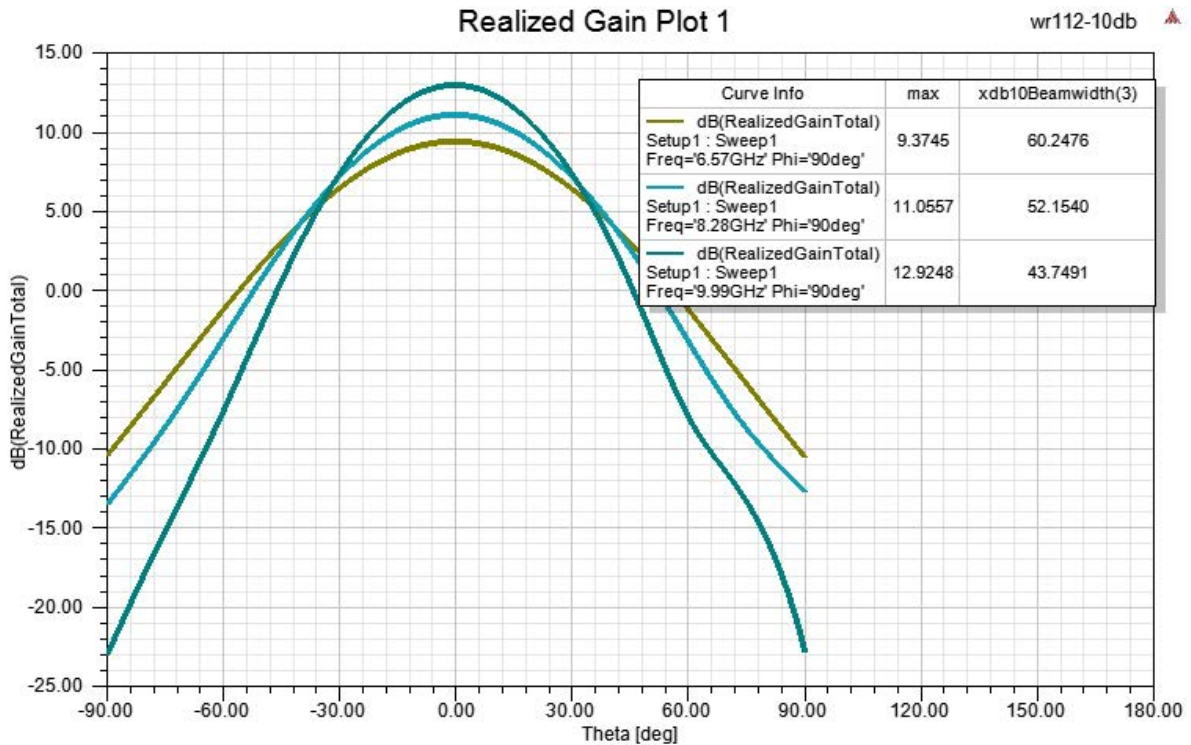
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WR-112 Waveguide Standard Gain Horn Antenna Operating from 7.05 GHz to 10 GHz 10 dBi Gain with UG-51/U-Square Flange and Cage Style Mount from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

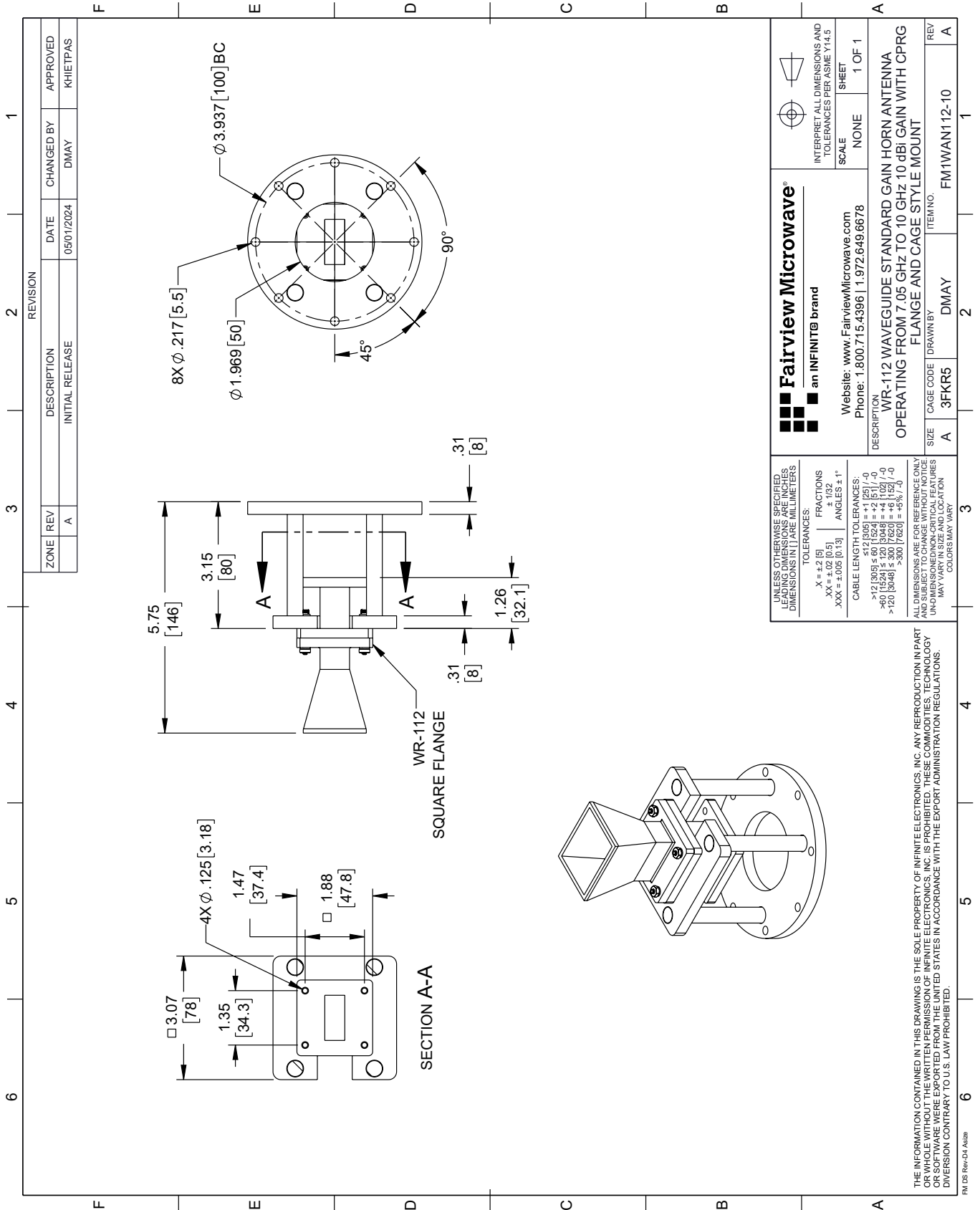
For additional information on this product, please click the following link: [WR-112 Waveguide Standard Gain Horn Antenna Operating from 7.05 GHz to 10 GHz 10 dBi Gain with UG-51/U-Square Flange and Cage Style Mount FM1WAN112-10](https://www.fairviewmicrowave.com/wr-112-waveguide-standard-gain-horn-10-db-cprg-fm1wan112-10-p.asp)

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# FM1WAN112-10 CAD Drawing

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



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