

WR-90 Waveguide Antenna With UG-135/U Flange, 10 dBi Gain and 8.2 GHz to 12.4 GHz

The FMWAN090-10 standard gain horn antenna (also known as waveguide horn) from Fairview Microwave has a nominal gain of 10 dBi. The Fairview Microwave 10 dBi WR-90 horn antenna operates from 8.2 GHz to 12.4 GHz (X Band). This WR-90 standard gain horn has a UG-135/U type flange. 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. These units are Aluminum and Powder coated for increased resistance to weather and corrosion with a Horizontal and Vertical Beam Width of 52.1 and 51.6 degrees respectively. Fairview Microwave's WR-90 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. X Band standard gain horn antenna can ship the same day to anywhere in the world. The WR-90 FMWAN090-10 waveguide horn is part of over 40,000 RF, microwave and millimeter wave components available from Fairview Microwave.

Configuration

Design	WR-90
Polarization	Linear

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	8.2		12.4	GHz
Nominal Gain		10		dB
Horizontal 3dB Beam Width		52.1		Deg
Vertical 3dB Beam Width		51.6		Deg
VSWR		1.3:1		

Mechanical Specifications

Size

Length	1.851 in [47.02 mm]
Width/Diameter	1.63 in [41.4 mm]
Height	1.63 in [41.4 mm]
Weight	0.1 lbs [45.36 g]

Waveguide Interface

Waveguide Size	WR-90
Flange Type	Square Cover
Flange Designation	UG-135/U
Body Material and Plating	Aluminum, Gray



Features:

- WR-90 Rectangular Waveguide Interface
- 8.2 GHz to 12.4 GHz
- 10 dBi Nominal Gain
- UG-135/U Cover Flange
- X Band

Applications:

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

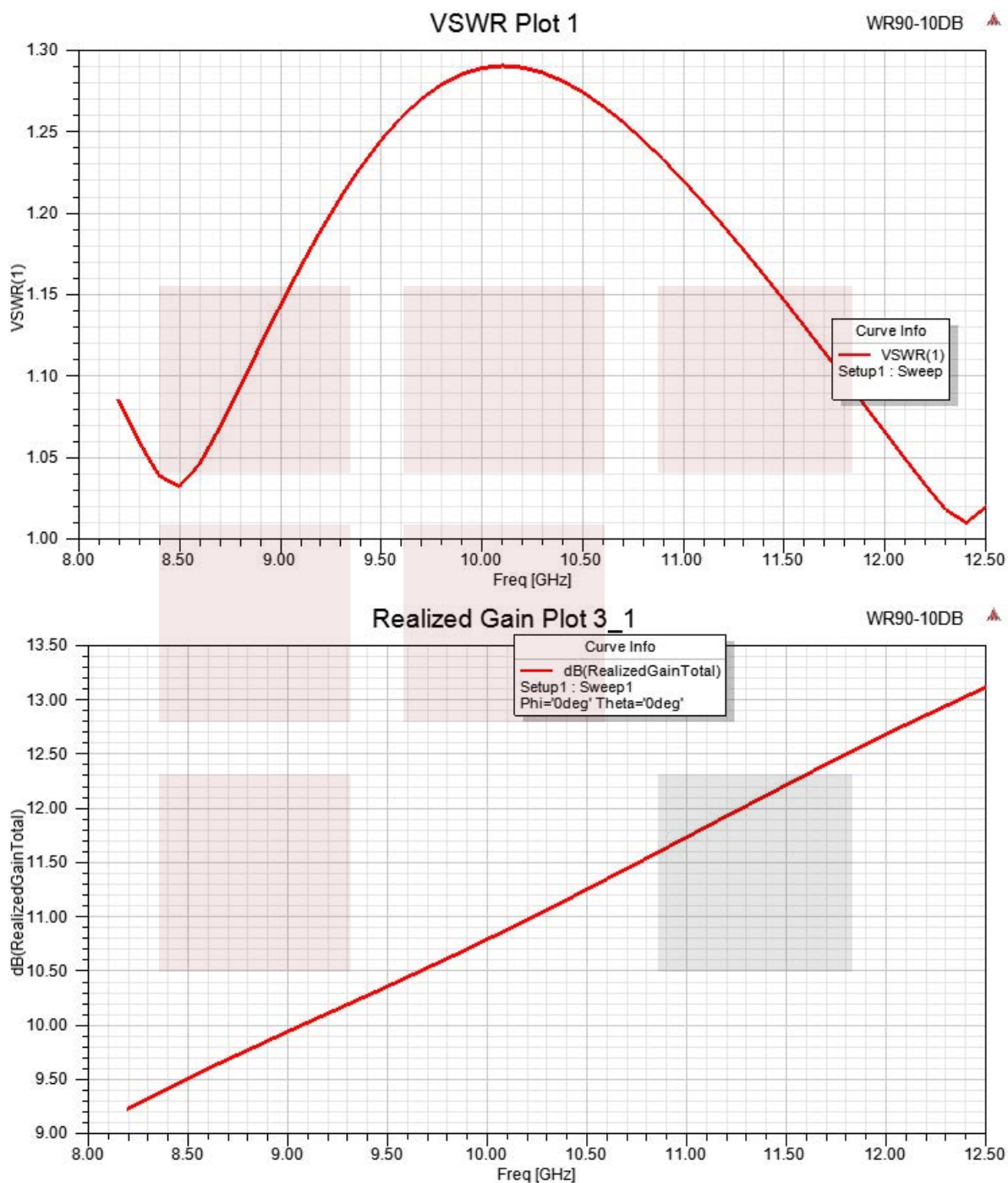
Compliance Certifications (see [product page](#) for current document)

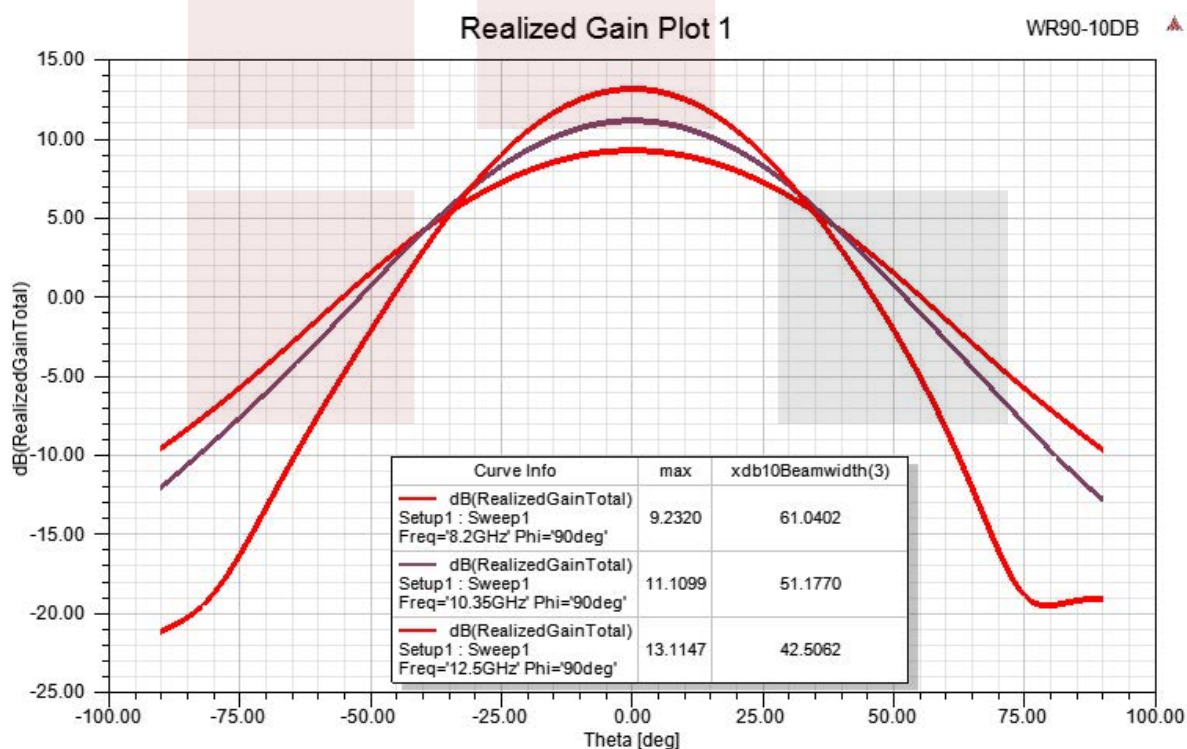
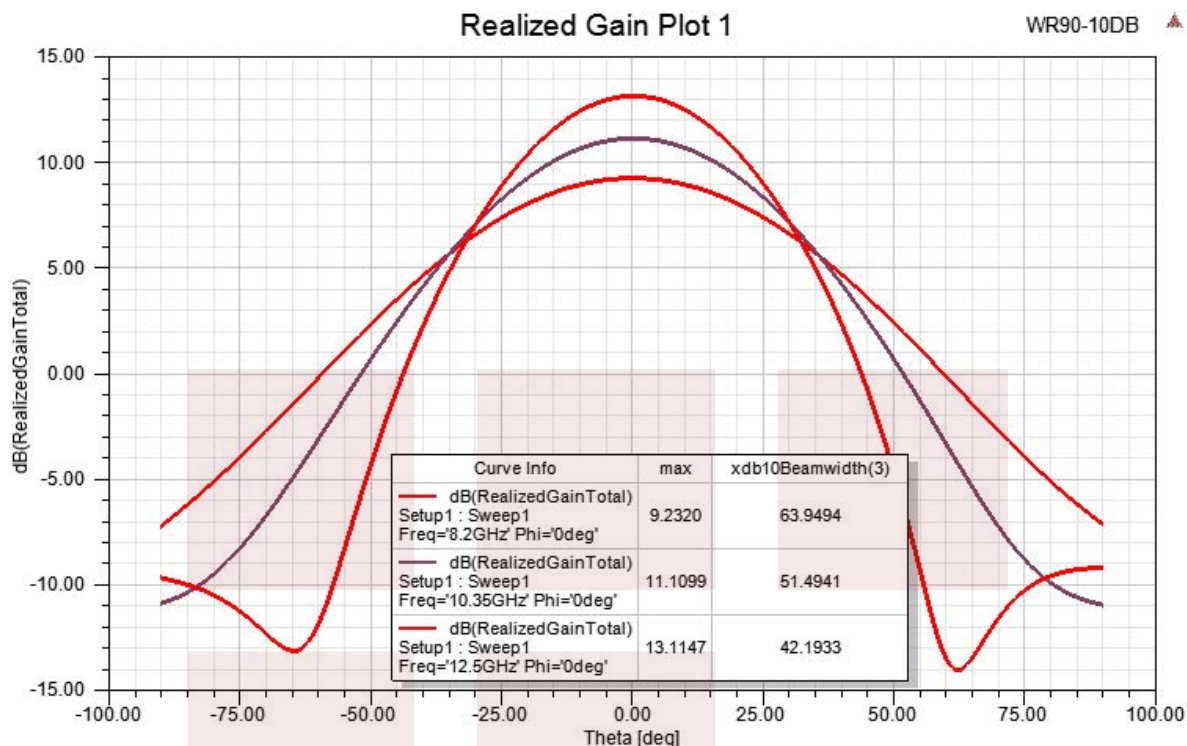
Plotted and Other Data

Notes:

Fairview Microwave
301 Leora Ln., Suite 100
Lewisville, TX 75056
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Typical Performance Data



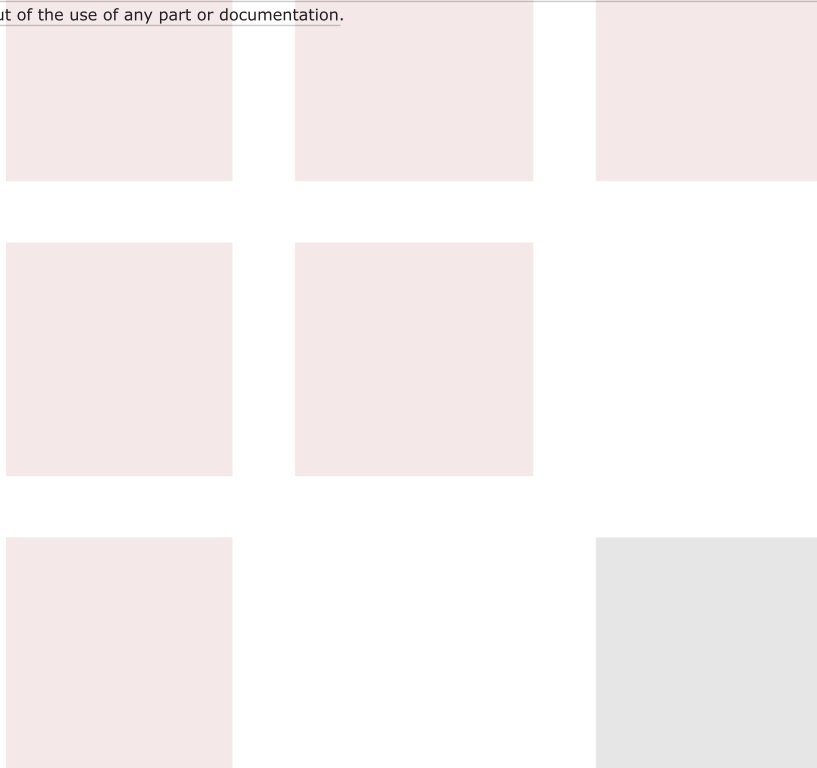


WR-90 Waveguide Antenna With UG-135/U Flange, 10 dBi Gain and 8.2 GHz to 12.4 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-90 Waveguide Antenna With UG-135/U Flange, 10 dBi Gain and 8.2 GHz to 12.4 GHz FMWAN090-10](#)

URL: <https://www.fairviewmicrowave.com/wr-90-waveguide-standard-gain-horn-10-db-ug-135-fmwan090-10-p.aspx>

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