

FMWAN090-10SM DATA SHEET

WR-90 Standard Gain Horn with 10 dBi gain, SMA Male connector

The FMWAN090-10SM standard gain horn antenna (also known as waveguide horn) from Fairview Microwave is part of our comprehensive selection of waveguide antennas. This standard gain horn is mated with a WR-90 to SMA Male waveguide to coaxial adapter and operates from 8.2 GHz to 12.4 GHz.

Our FMWAN090-10SM standard gain horn antenna has a nominal gain of 10 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 52.1 dB and 51.6 dB respectively. Fairview Microwave's SMA Male 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 FMWAN090-10SM 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 Male 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 Standard Gain Horn

Coaxial Interface SMA Male

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	requency Range 8.2		12.4	GHz
Waveguide Standard	Gain Horn			
Gain		10		dBi
Horizontal 3dB Beam V	52.1		Degrees	
Vertical 3dB Beam Wid	51.6		Degrees	
Waveguide to Coaxial	Adapter			
Input VSWR			1.25:1	

Mechanical Specifications

Size

 Length
 3.351 in 85.12 mm

 Width/Diameter
 1.63 in 41.4 mm

 Height
 1.63 in 41.4 mm

 Weight
 0.1 lbs 45.36 g

RF Connector

Type SMA Male

Waveguide Interface

Waveguide Size WR-90

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Features:

- 8.2 GHz to 12.4 GHz
- WR-90 Waveguide Band
- 10 dBi Nominal Gain
- SMA Male Connector

Applications:

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

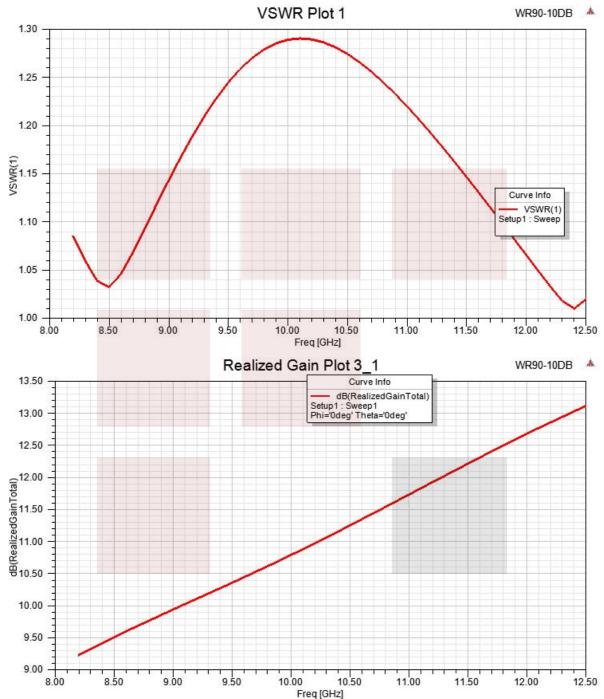
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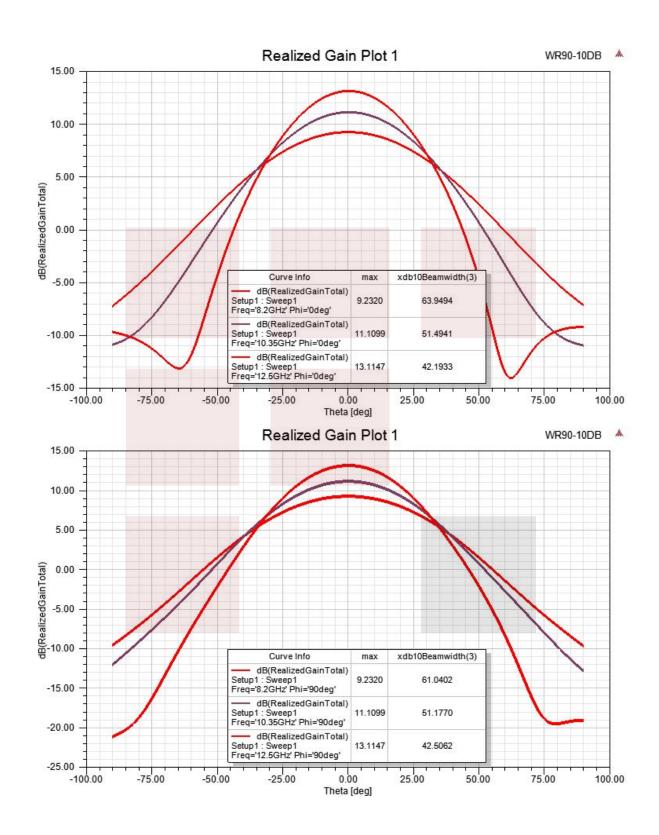


Typical Performance Data













WR-90 Standard Gain Horn with 10 dBi gain, SMA Male connector 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 10 dBi gain, SMA Male connector FMWAN090-10SM

The information contained in this document is accurate to the best of our knowledge and representative of the part

URL: https://www.fairviewmicrowave.com/wr-90-standard-gain-horn-10-dbi-sma-fmwan090-10sm-p.aspx

described	herein. It ma	ay be necessar	y to ma	ke modificatio	ns to the part a	nd/or tl	he documentation of the	part, in order		
to impleme	ent improven	nents. Fairview	Microw	ave reserves t	he right to mak	e such o	changes as required. Un	ess otherwise		
							resentation or warranty			
					rpose, and Fair	view Mi	crowave does not assum	e any liability		
arising out of the use of any part or documentation.										

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