

## FMWAN090-15SF DATA SHEET

# WR-90 Standard Gain Horn with 15 dBi gain, SMA Female connector

The FMWAN090-15SF 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 Female waveguide to coaxial adapter and operates from 8.2 GHz to 12.4 GHz.

Our FMWAN090-15SF standard gain horn antenna has a nominal gain of 15 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 31 dB and 32 dB respectively. Fairview Microwave's SMA Female 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 FMWAN090-15SF 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 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-90 Standard Gain Horn

Coaxial Interface SMA Female

## **Electrical Specifications**

Description	Min	Тур	Max	Units
Frequency Range	8.2		12.4	GHz
Waveguide Standard	Gain Horn			
Gain		15		dBi
Horizontal 3dB Beam V	31		Degrees	
Vertical 3dB Beam Width		32		Degrees
<b>Waveguide to Coaxial</b>	Adapter			
Input VSWR			1.25:1	

#### **Mechanical Specifications**

Size

 Length
 4.846 in 123.09 mm

 Width/Diameter
 2.439 in 61.95 mm

 Height
 1.755 in 44.58 mm

 Weight
 0.25 lbs 113.4 g

**RF Connector** 

Type SMA Female

**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
- 15 dBi Nominal Gain
- SMA Female Connector

## **Applications:**

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

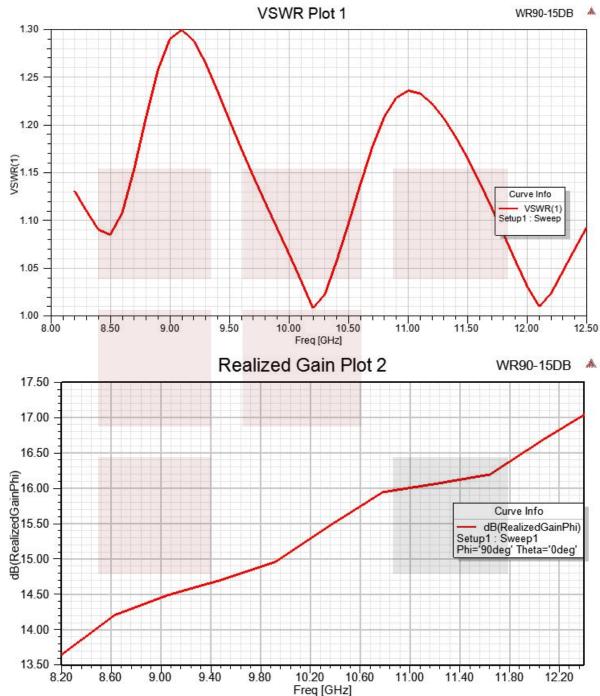
Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com



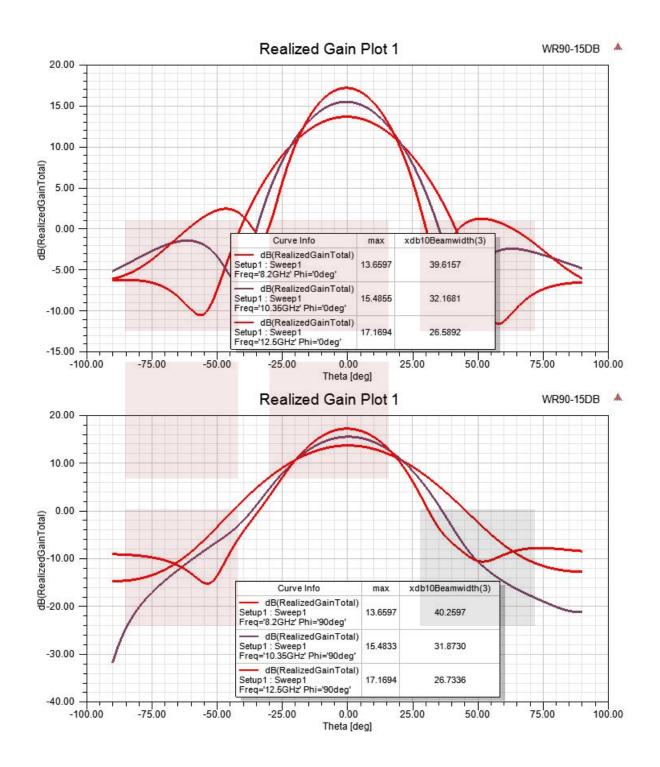


#### **Typical Performance Data**













WR-90 Standard Gain Horn with 15 dBi gain, SMA Female 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 15 dBi gain, SMA Female connector FMWAN090-15SF

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

URL:

described herein. I	t may be necess	ary to ma	ike modifications	to the part a	nd/or th	ne documenta	tion of the part	, in order
to implement impro	vements. Fairvie	w Microv	ave reserves the	right to mak	e such d	hanges as red	quired. Unless	otherwise
stated, all specificat	tions are nomina	I. Fairvie	w Microwave do	es not make	any rep	resentation or	warranty rega	rding the
suitability of the pa				ose, and Fair	view Mi	crowave does	not assume ar	y liability
arising out of the us	se of any part or	documen	tation.					





