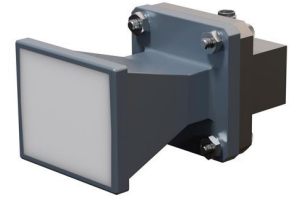


WR-90 Standard Gain Horn with 10 dBi Gain, SMA Female Connector with Weather Resistant Radome Cover



FM3WAN090-10SF

Features

- 8.2 GHz to 12.4 GHz
- WR-90 Waveguide Band
- 10 dBi Nominal Gain
- SMA Female Connector
- Ruggedized Aluminum Cage-Style Mount
- Integrates with Positioning Systems

Applications

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

Description

Fairview Microwave's FM3WAN090-10SF standard gain horn with coaxial adapter transition (can also be called a waveguide horn antenna) is just one part of a large selection of our waveguide components. Our waveguide horn antenna with coax adapter transition is manufactured with a weather-resistant radome cover. This standard gain horn antenna is constructed with an SMA female input connector and built to precise RF, microwave, and millimeter wave design specifications. Our antenna has a length of 3.35 inches, a width of 1.63 inches, and a weight of 0.1 lbs.

This WR-90 waveguide antenna with an SMA female transition adapter from Fairview Microwave has a typical gain of 10 dBi and is in stock now. Our standard gain horn antenna with a weather-resistant radome cover can operate at frequencies ranging from 8.2 GHz to 12.4 GHz. Our waveguide horn antenna has a typical vertical beam width of 51.6 degrees and a horizontal beam width of 52.1 degrees at 3 dB. This antenna is suitable for applications such as antenna measurements, wireless communication, laboratory use, microwave radio systems, radome testing, automotive antenna test solutions, radar cross section, and satellite antenna testing.

Additional dimensions and specifications for this WR-90 waveguide horn antenna are available on our downloadable PDF datasheet. This standard gain horn antenna is part of over one million RF, microwave, and millimeter wave components in stock. Our FM3WAN090-10SF waveguide antenna with an SMA coaxial adapter is ready for same-day purchase and shipping worldwide. Fairview Microwave also stocks a wide array of other waveguide antenna products that ship the same business day from our warehouse for all your RF/microwave and millimeter component needs.

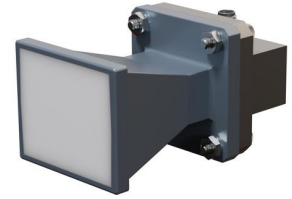
Configuration

Design	WR-90
Coaxial Interface	SMA Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	8.2		12.4	GHz
Gain		10		dBi
Horizontal Half Power Beam Width		52.1		Degrees
Vertical Half Power Beam Width		51.6		Degrees
Waveguide to Coaxial Adapter				
VSWR			1.3:1	

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Mechanical Specifications

Size

Length	3.351 in [85.12 mm]
Width	1.63 in [41.4 mm]
Height	1.63 in [41.4 mm]
Weight	0.1 lbs [45.36 g]

RF Connector

Type	SMA Female
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Waveguide Interface

Waveguide Size	WR-90
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data

WR-90 Standard Gain Horn with 10 dBi Gain, SMA Female Connector with Weather Resistant Radome Cover 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 Female Connector with Weather Resistant Radome Cover FM3WAN090-10SF](#)

URL: <https://www.fairviewmicrowave.com/wr-90-standard-gain-horn-10-dbi-sma-fm3wan090-10sf-p.aspx>

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.

FM3WAN090-10SF CAD Drawing

WR-90 Standard Gain Horn with 10 dBi Gain, SMA Female Connector with Weather Resistant Radome Cover

