

WR-159 Standard Gain Horn with 15 dBi gain, N Female Connector, Integrated Cage-Style Mount

FM1WAN159-15NF

Features

- 4.9 GHz to 7.05 GHz
- · WR-159 Waveguide Band
- · 15 dBi Nominal Gain

Applications

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

- N Female Connector
- · Ruggedized Aluminum Cage-Style Mount
- · Radome Testing
- Automotive Antenna Test Solutions
- Radar Cross Section
- · Satellite Antenna Testing

Description

The FM1WAN159-15NF standard gain horn antenna (also known as waveguide horn) from Fairview Microwave is part of our comprehensive selection of waveguide antennas. The cage-style mount is a ruggedized aluminum mounting solution that integrates with test and measurement positioning systems, ensuring precise alignment and protection of the antenna. This standard gain horn is mated with a WR-159 to N Female waveguide to coaxial adapter and operates from 4.9 GHz to 7.05 GHz.

Our FM1WAN159-15NF standard gain horn antenna with integrated cage-style mount 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 N Female to WR-159 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FM1WAN159-15NF 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-159 waveguide antennas with N 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-159
Coaxial Interface N Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	4.9		7.05	GHz
Gain		15	-	
Horizontal Half Power Beam Width		31		Degrees
Vertical Half Power Beam Width		32		Degrees
Waveguide to Coaxial Adapter				
VSWR			1.3:1	

Mechanical Specifications

Size	
Length	8.97 in [227.84 mm]
Width	4.33 in [109.98 mm]
Height	8.72 in [221.49 mm]
Weight	1.54 lbs [698.53 g]



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RF Connector

Type N Female

Waveguide Interface

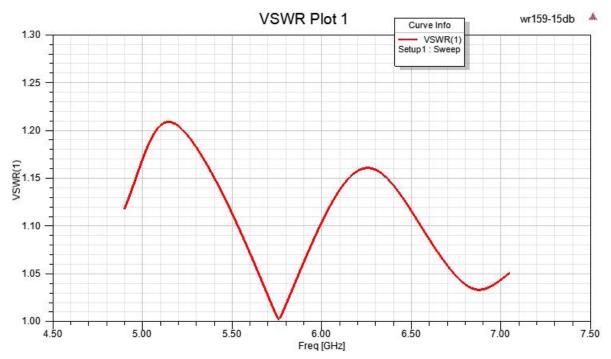
Waveguide Size WR-159

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

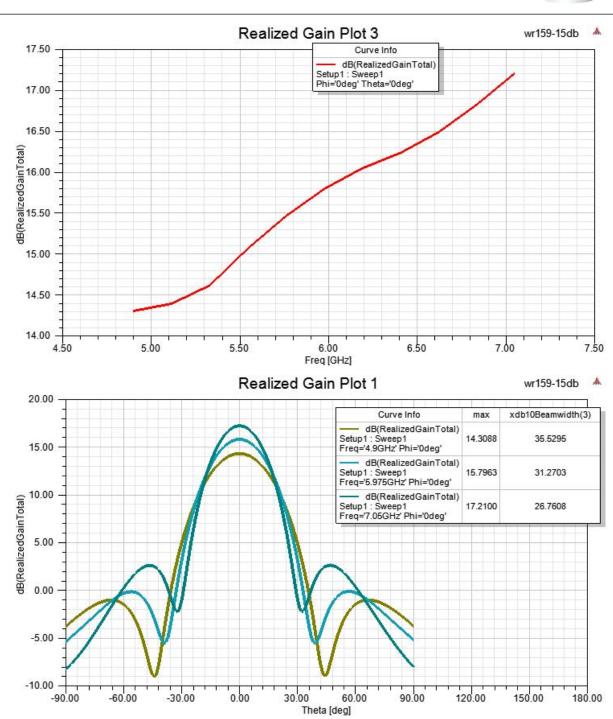
Typical Performance Data





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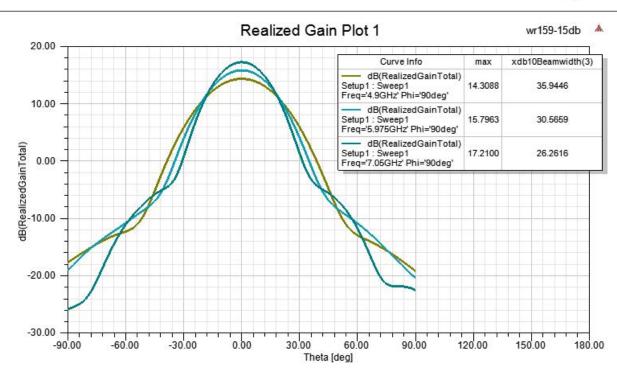
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WR-159 Standard Gain Horn with 15 dBi gain, N Female Connector, Integrated Cage-Style Mount from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: WR-159 Standard Gain Horn with 15 dBi gain, N Female Connector, Integrated Cage-Style Mount FM1WAN159-15NF

URL: https://www.fairviewmicrowave.com/wr-159-standard-gain-horn-15-dbi-n-fm1wan159-15nf-p.aspx

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