

## WR-75 Standard Gain Horn with 15 dBi gain, N Female Connector, Integrated Cage-Style Mount

### FM1WAN075-15NF



#### Features

- 10 GHz to 15 GHz
- WR-75 Waveguide Band
- 15 dBi Nominal Gain
- N 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

The FM1WAN075-15NF standard gain horn antenna with integrated cage-style mount (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-75 to N Female waveguide to coaxial adapter and operates from 10 GHz to 15 GHz.

Our FM1WAN075-15NF 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 and 32 degrees respectively. Fairview Microwave's N Female to WR-75 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FM1WAN075-15NF 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-75 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-75
Polarization	Linear
Coaxial Interface	N Female

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	10		15	GHz
Gain		15		
Horizontal Half Power Beam Width		31		Degrees
Vertical Half Power Beam Width		32		Degrees
<b>Waveguide to Coaxial Adapter</b>				
VSWR		1.3:1		
Input Power (Peak)			200	Watts

#### Mechanical Specifications

<b>Size</b>	
Length	8.008 in [203.4 mm]
Width	4.331 in [110.01 mm]

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Height	3.15 in [80.01 mm]
Weight	1.228 lbs [557.01 g]

#### RF Connector

Type	N Female
Body Material and Plating	Stainless Steel

#### Waveguide Interface

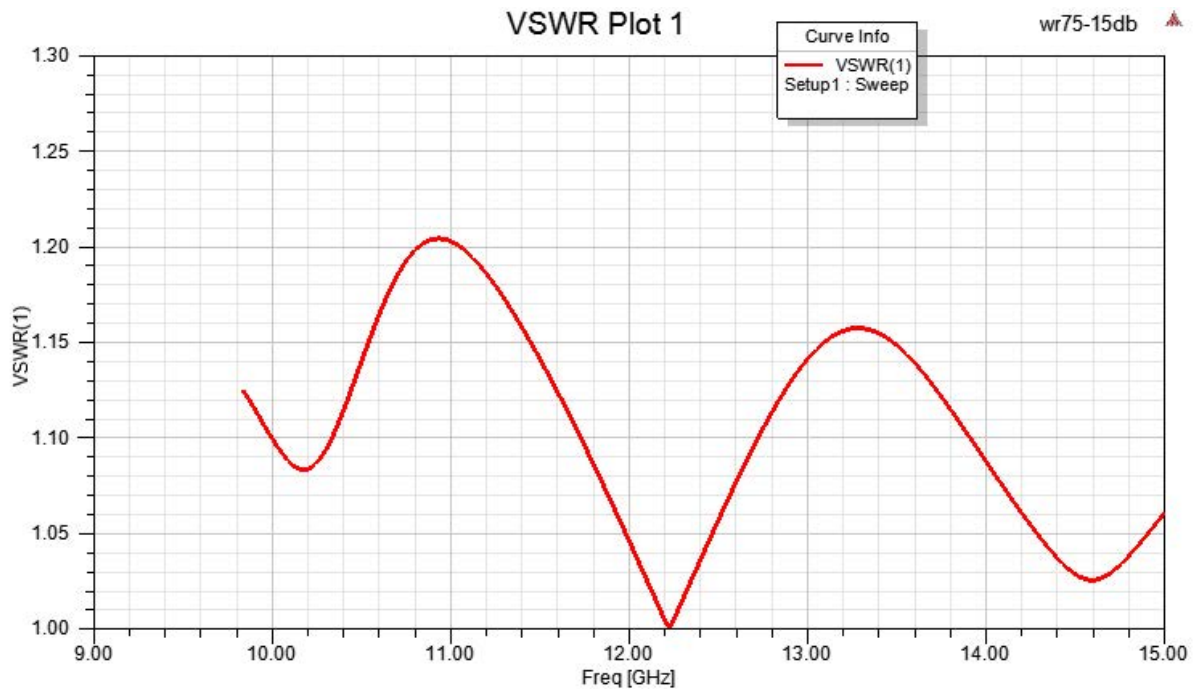
Waveguide Size	WR-75
Flange Type	Square Cover
Flange Designation	None
Body Material and Plating	Aluminum

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

#### Plotted and Other Data

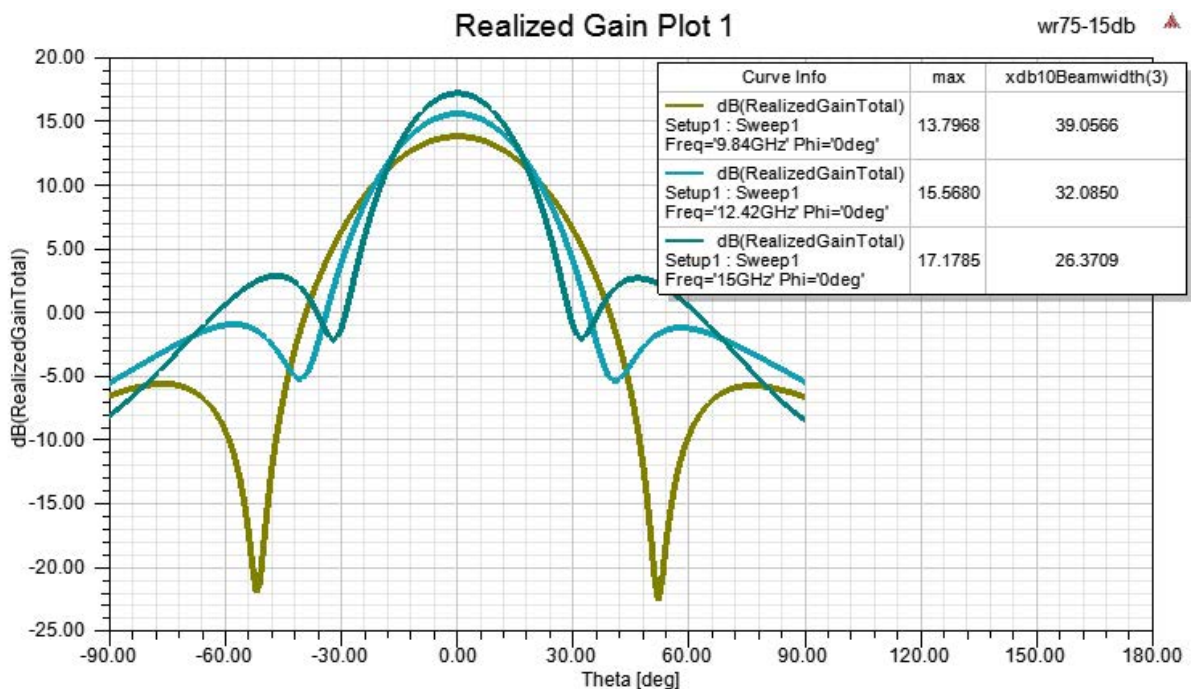
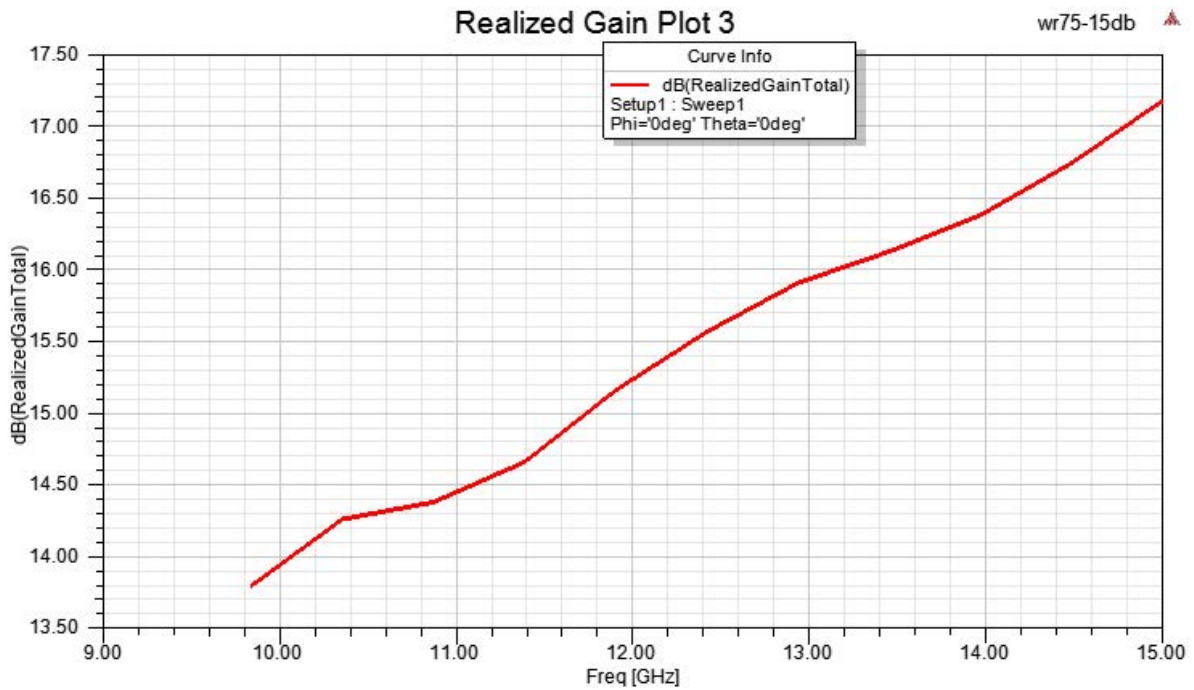
Notes:

#### Typical Performance Data



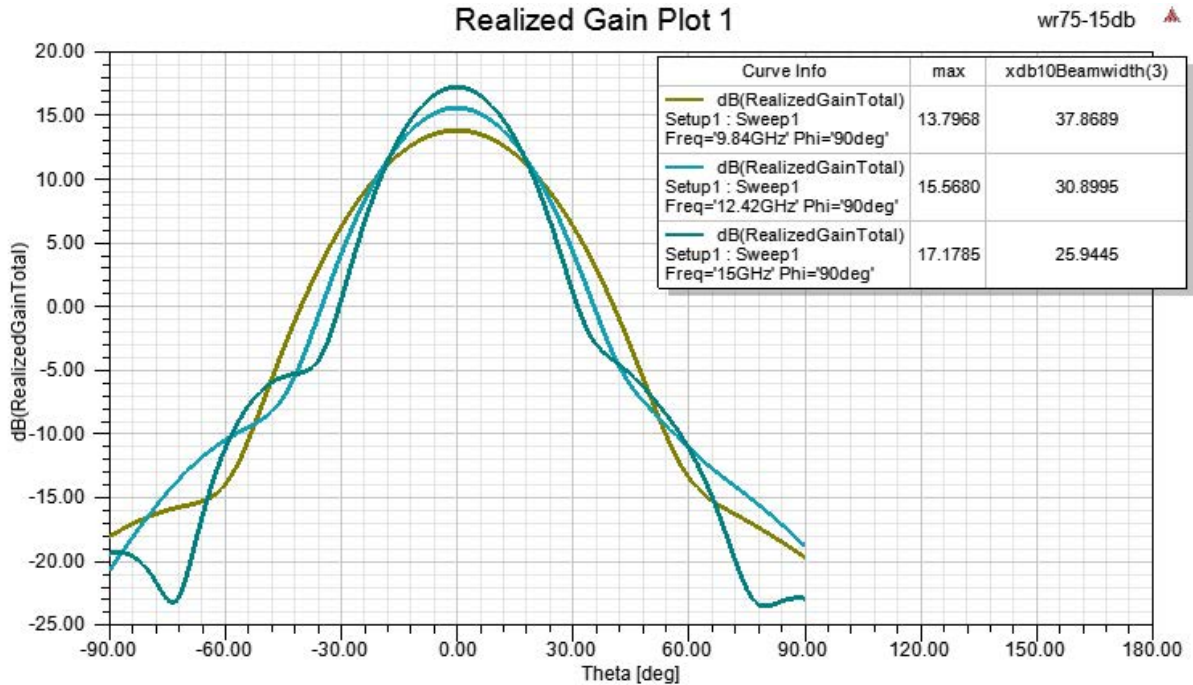
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WR-75 Standard Gain Horn with 15 dBi gain, N Female Connector, Integrated Cage-Style Mount from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-75 Standard Gain Horn with 15 dBi gain, N Female Connector, Integrated Cage-Style Mount FM1WAN075-15NF](#)

URL: <https://www.fairviewmicrowave.com/wr-75-standard-gain-horn-15-db-n-fm1wan075-15nf-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.

FM1WAN075-15NF CAD Drawing

WR-75 Standard Gain Horn with 15 dBi gain, N Female Connector, Integrated Cage-Style Mount

