

## WR-430 Standard Gain Horn with 15 dBi gain, N Female Connector, Integrated Cage-Style Mount



### FM1WAN430-15NF

#### Features

- 1.7 GHz to 2.6 GHz
- WR-430 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 FM1WAN430-15NF 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-430 to N Female waveguide to coaxial adapter and operates from 1.7 GHz to 2.6 GHz.

Our FM1WAN430-15NF 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-430 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FM1WAN430-15NF 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-430 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-430
Polarization	Linear
Coaxial Interface	N Female

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1.7		2.6	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)			500	Watts

#### Mechanical Specifications

<b>Size</b>	
Length	26.02 in [660.91 mm]
Width	11.653 in [295.99 mm]

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**FM1WAN430-15NF**

Height 8.385 in [212.98 mm]  
Weight 5.8252 lbs [2.64 kg]

**RF Connector**

Type N Female  
Body Material and Plating Stainless Steel

**Waveguide Interface**

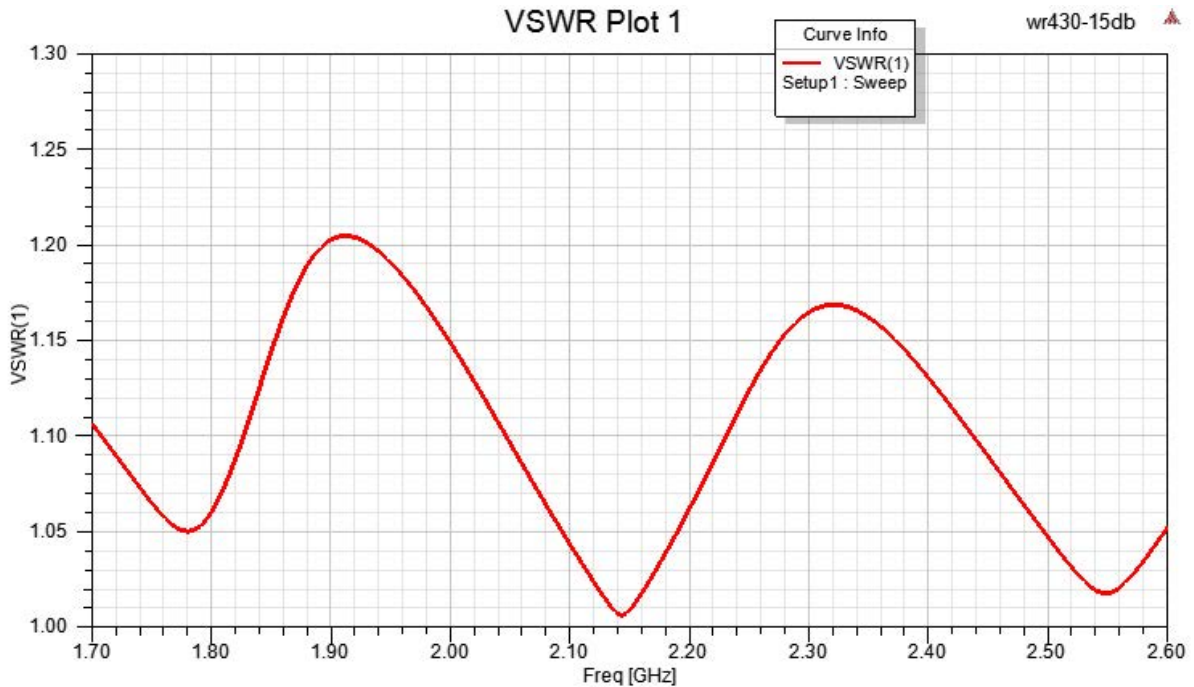
Waveguide Size WR-430  
Flange Type Square Cover  
Flange Designation None  
Body Material and Plating Aluminum

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

**Plotted and Other Data**

Notes:

**Typical Performance Data**



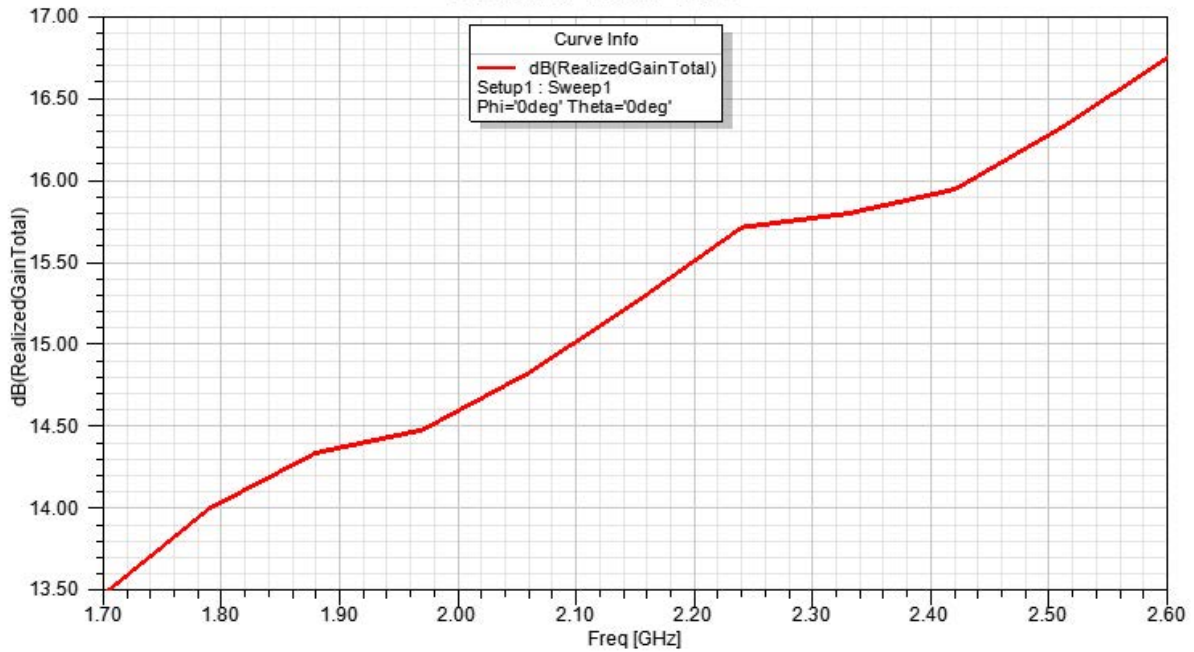
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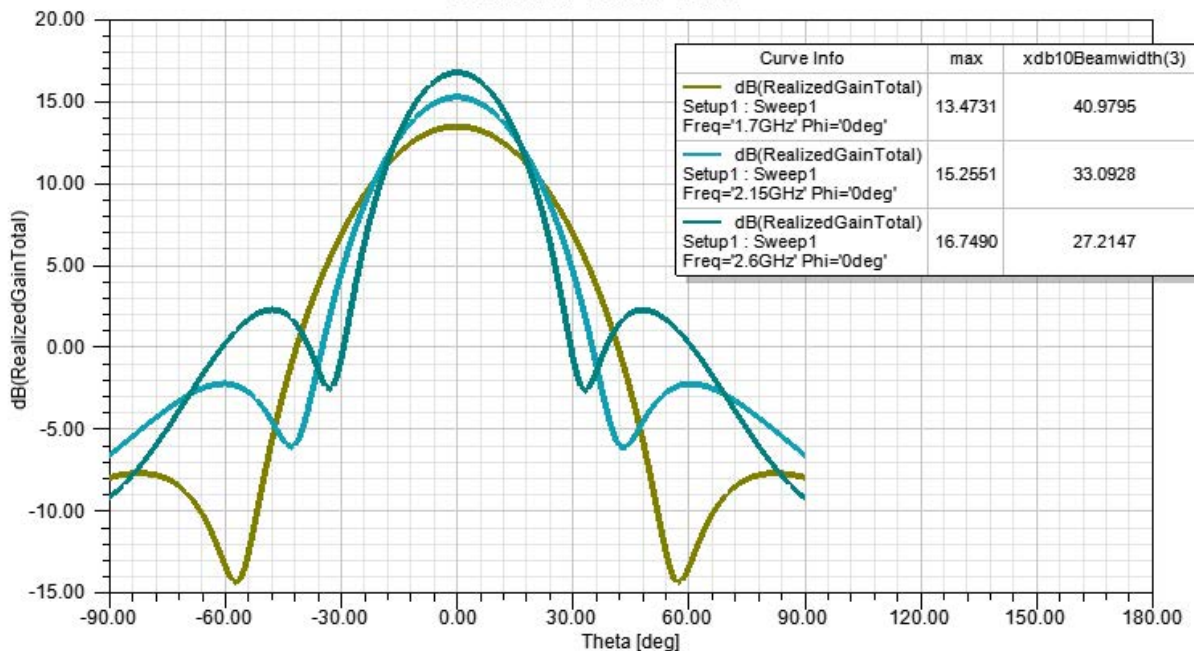
Realized Gain Plot 3

wr430-15db



Realized Gain Plot 1

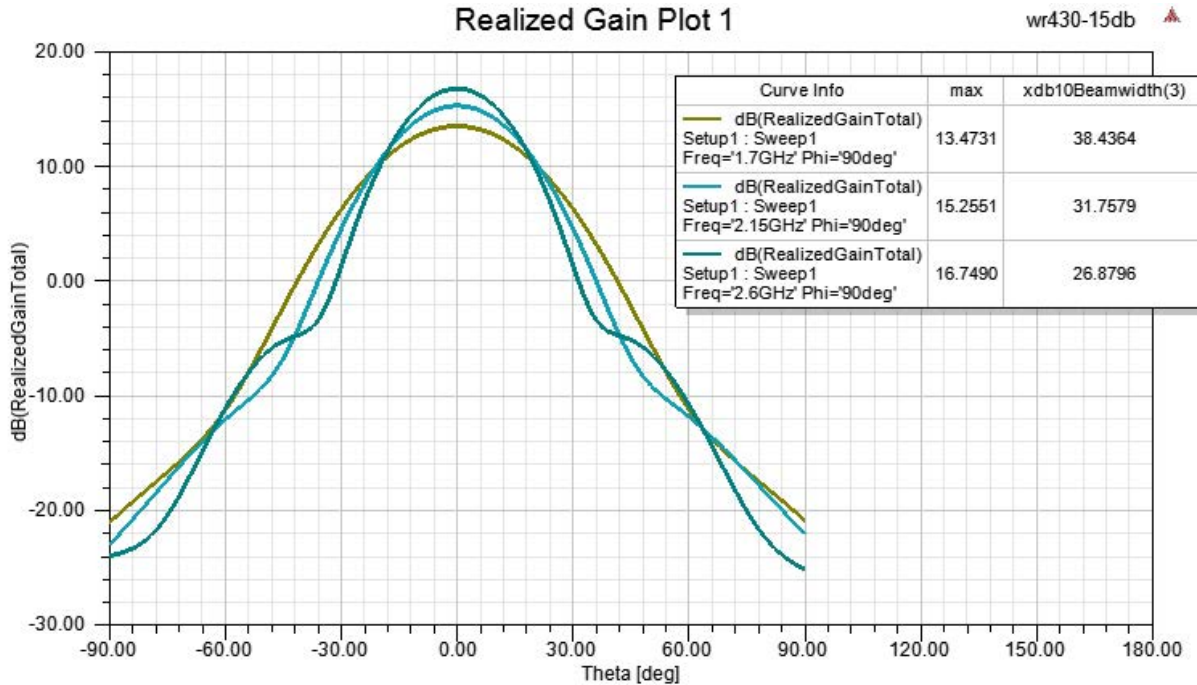
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WR-430 Standard Gain Horn with 15 dBi gain, N Female Connector, Integrated Cage-Style Mount from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-430 Standard Gain Horn with 15 dBi gain, N Female Connector, Integrated Cage-Style Mount FM1WAN430-15NF](https://www.fairviewmicrowave.com/wr-430-standard-gain-horn-15-db-n-fm1wan430-15nf-p.aspx)

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# FM1WAN430-15NF CAD Drawing

WR-430 Standard Gain Horn with 15 dBi gain, N Female Connector, Integrated Cage-Style Mount

