

## WR-75 Standard Gain Horn with 20 dBi gain, N Female connector

The FMWAN075-20NF 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-75 to N Female waveguide to coaxial adapter and operates from 10 GHz to 15 GHz.

Our FMWAN075-20NF standard gain horn antenna has a nominal gain of 20 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 17.5 dB and 17.3 dB 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 FMWAN075-20NF 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 Standard Gain Horn  
Coaxial Interface N Female

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	10		15	GHz
<b>Waveguide Standard Gain Horn</b>				
Gain		20		dBi
Horizontal 3dB Beam Width		17.5		Degrees
Vertical 3dB Beam Width		17.3		Degrees
<b>Waveguide to Coaxial Adapter</b>				
Input VSWR			1.3:1	

### Mechanical Specifications

**Size**  
 Length 9.177 in 233.1 mm  
 Width/Diameter 3.668 in 93.17 mm  
 Height 2.721 in 69.11 mm  
 Weight 0.586 lbs 265.81 g

**RF Connector**  
 Type N Female

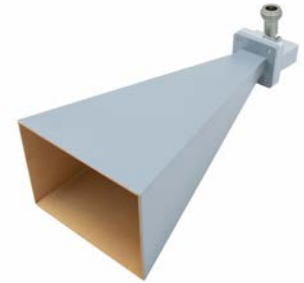
**Waveguide Interface**  
 Waveguide Size WR-75

### Environmental Specifications

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

### Plotted and Other Data

Notes:



### Features:

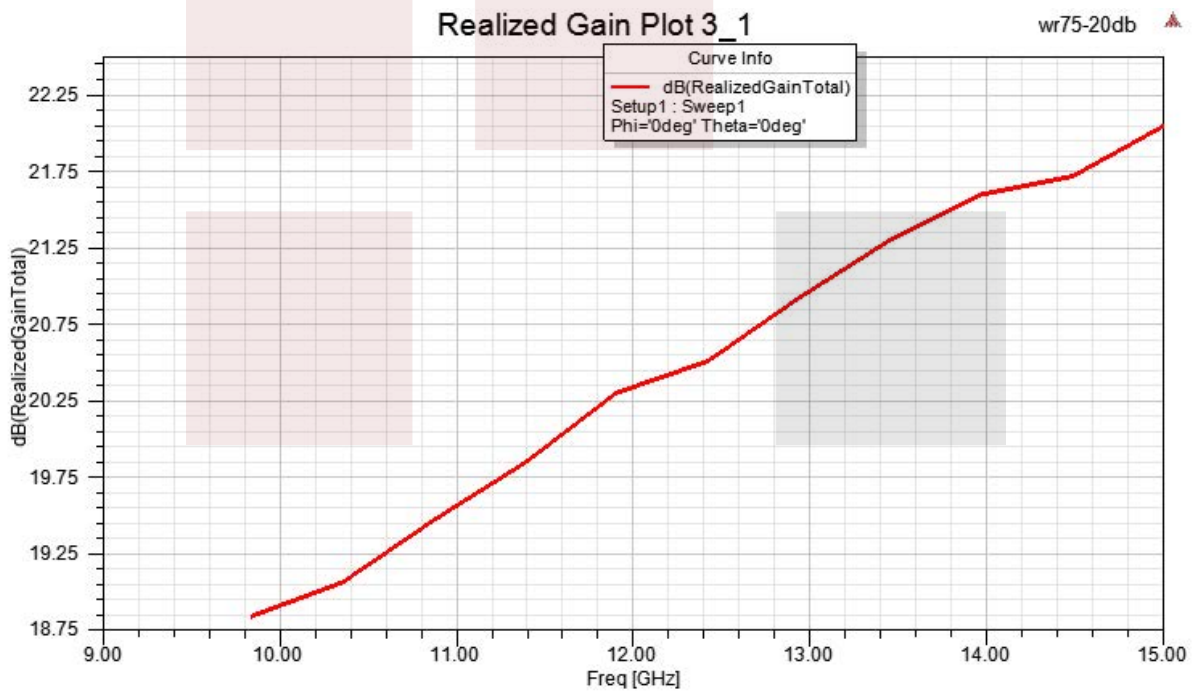
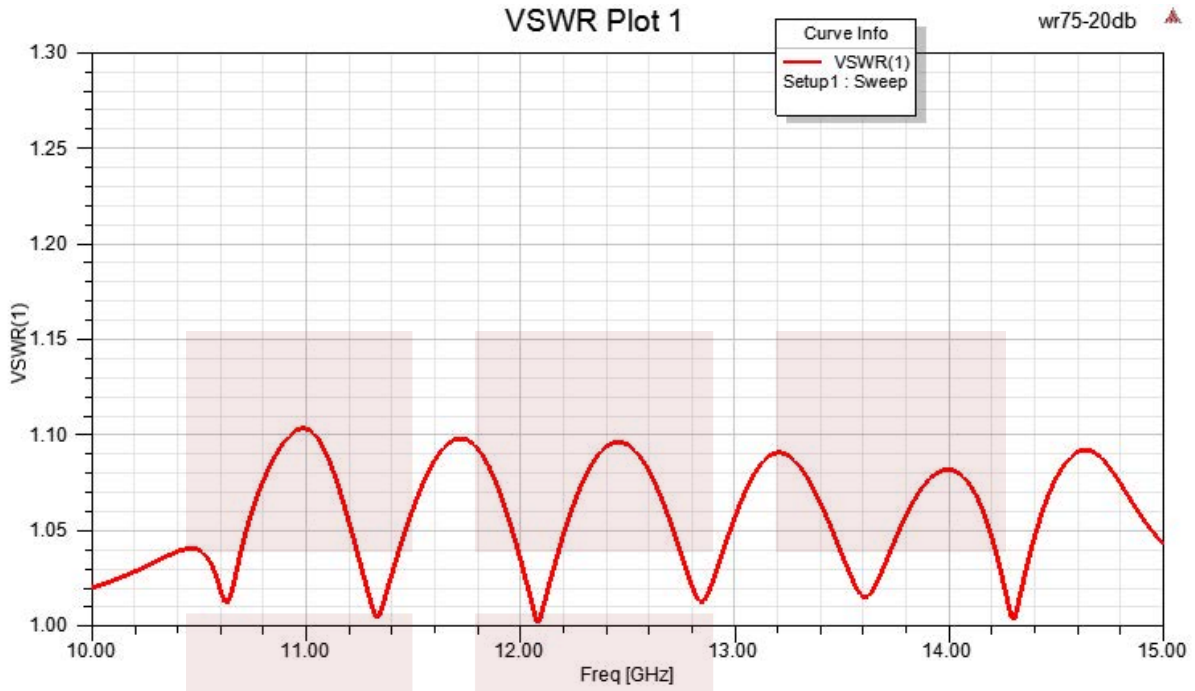
- 10 GHz to 15 GHz
- WR-75 Waveguide Band
- 20 dBi Nominal Gain
- N Female Connector

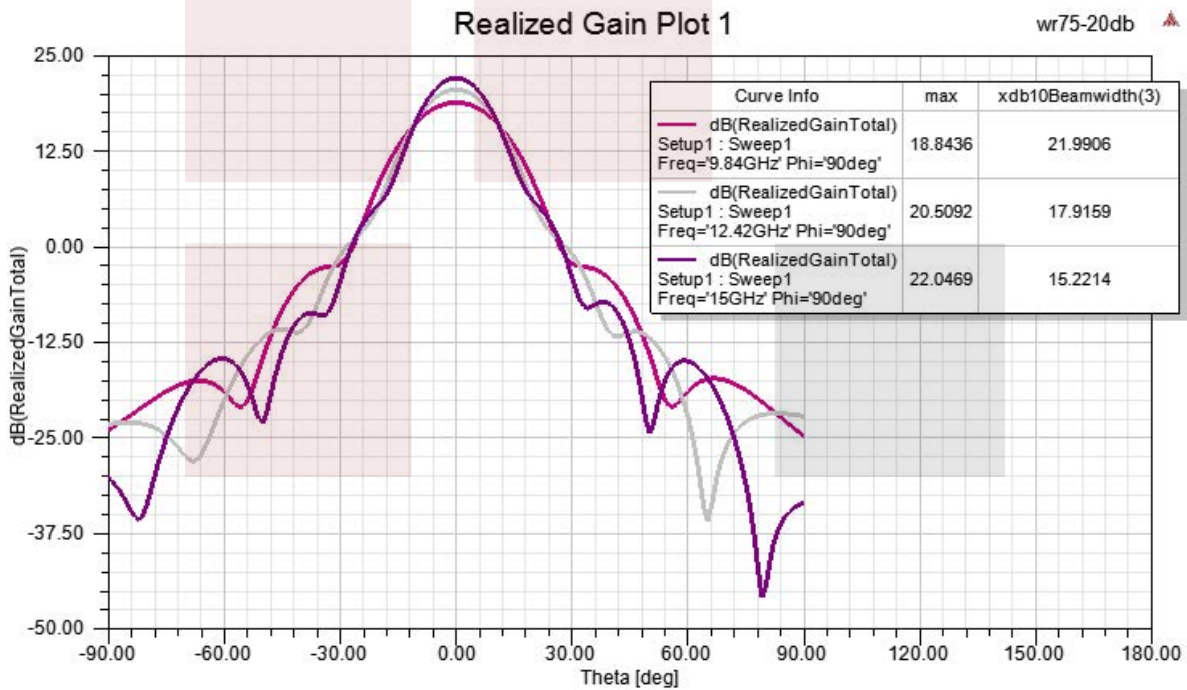
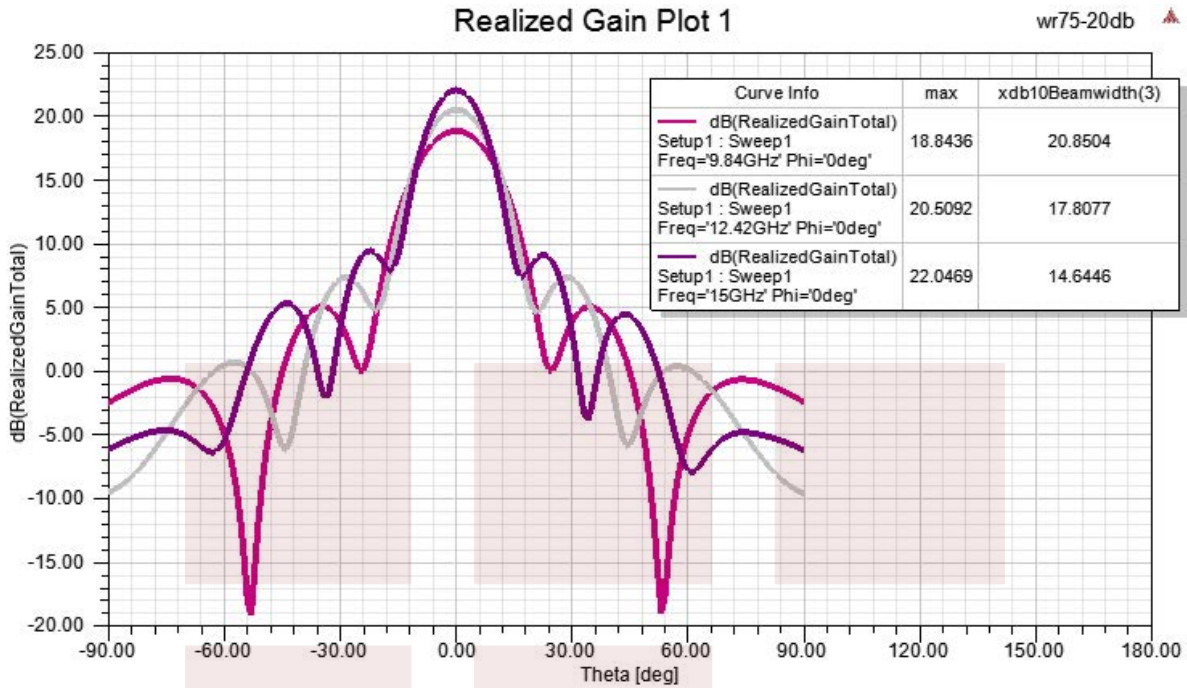
### Applications:

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

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**Typical Performance Data**



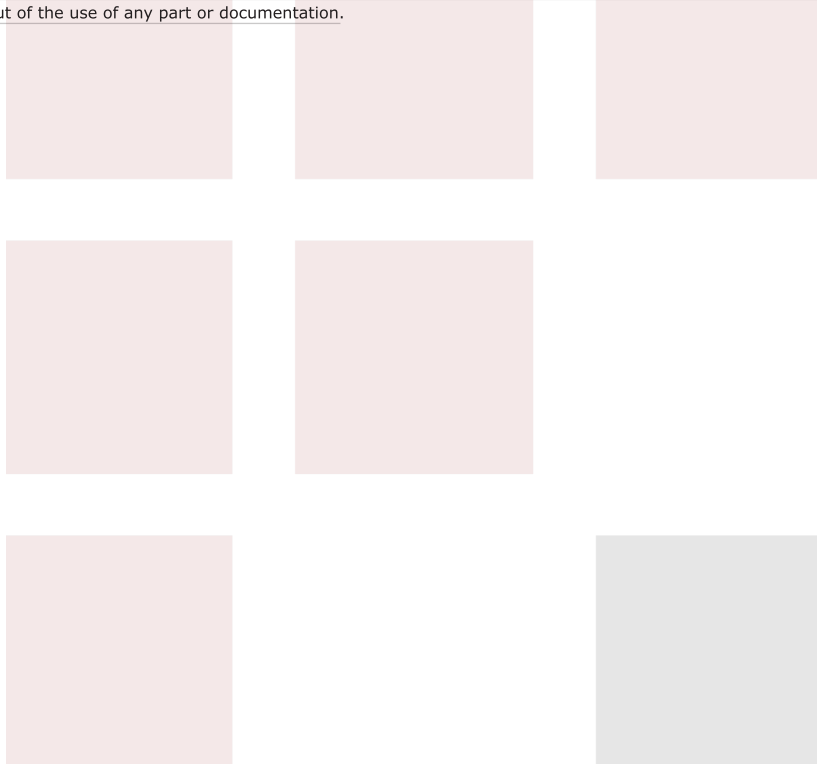


WR-75 Standard Gain Horn with 20 dBi gain, N Female connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

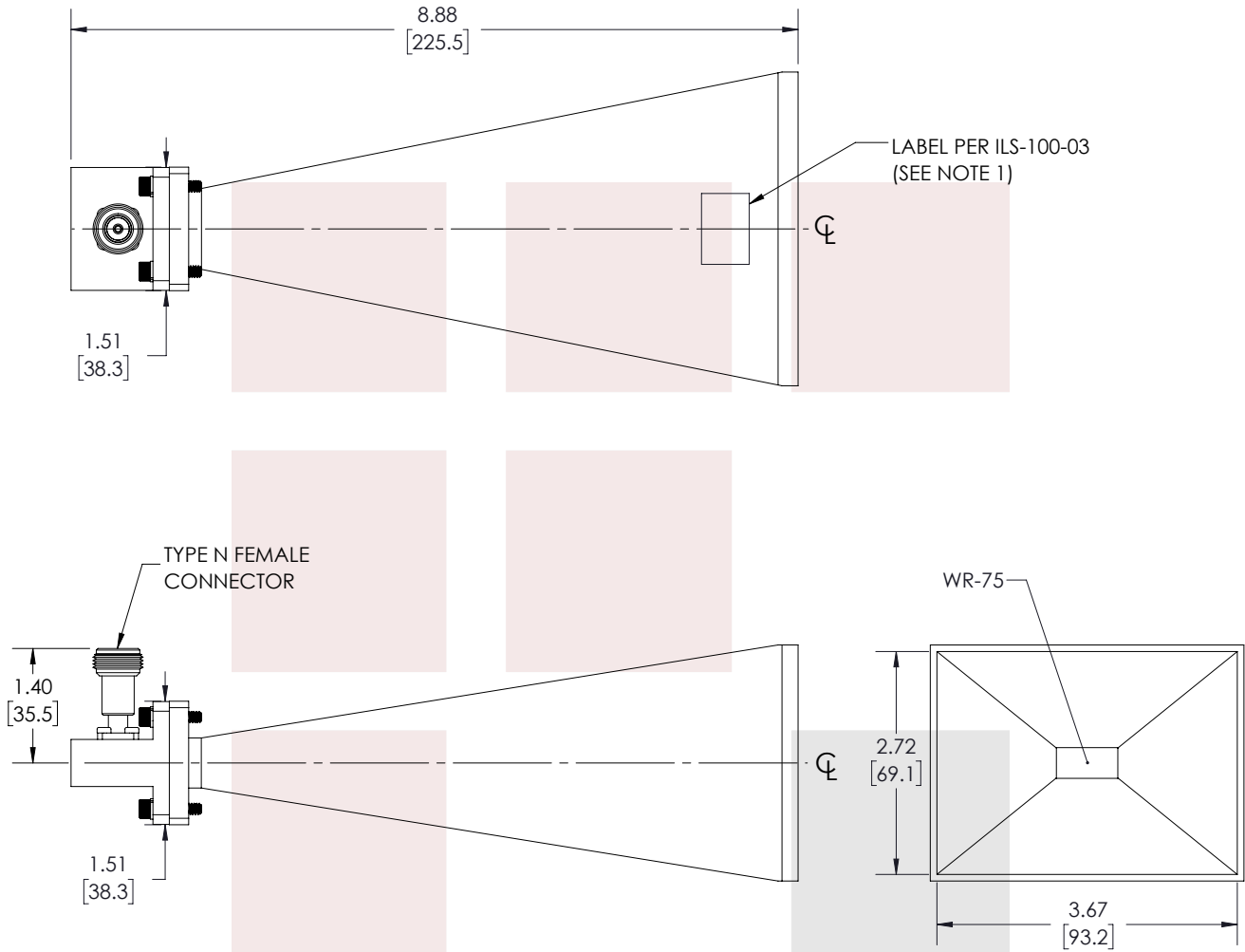
For additional information on this product, please click the following link: [WR-75 Standard Gain Horn with 20 dBi gain, N Female connector FMWAN075-20NF](#)

URL: <https://www.fairviewmicrowave.com/wr-75-waveguide-standard-gain-horn-antenna-20-db-n-pewan075-20nf-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	01/27/2022	KHIETPAS



- NOTES:**
- LABEL PER ILS-100-03 (FOR INTERNAL REFERENCE ONLY)  
LABEL LOCATION FOR REFERENCE ONLY

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	TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
TITLE WR-75 Standard Gain Horn with 20 dBi gain, N Female connector	.X = ±.2 [5.08] FRACTIONS	L ≤ 12 [305] = +1 [25] / -0	THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.	
	.XX = ±.02 [.51] ± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0		
	.XXX = ±.005 [.13] ANGLES ± 1°	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0	SHEET 1 OF 1	
		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0	SCALE N/A	
		300 [7620] < L = +5%L / -0	ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
SIZE A	CAGE CODE 3FKR5	DRAWN BY BPUCHASKI	ITEM NO. FMWAN075-20NF	REV A

T-Rev.D