

## WR-62 Standard Gain Horn with 10 dBi gain, SMA Female connector

The FMWAN062-10SF 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-62 to SMA Female waveguide to coaxial adapter and operates from 12.4 GHz to 18 GHz.

Our FMWAN062-10SF standard gain horn antenna has a nominal gain of 10 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 52.1 dB and 51.6 dB respectively. Fairview Microwave's SMA Female to WR-62 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FMWAN062-10SF 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-62 waveguide antennas with SMA 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-62 Standard Gain Horn  
Coaxial Interface SMA Female

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	12.4		18	GHz
<b>Waveguide Standard Gain Horn</b>				
Gain		10		dBi
Horizontal 3dB Beam Width		52.1		Degrees
Vertical 3dB Beam Width		51.6		Degrees
<b>Waveguide to Coaxial Adapter</b>				
Input VSWR			1.25:1	

### Mechanical Specifications

**Size**  
 Length 2.265 in 57.53 mm  
 Width/Diameter 1.31 in 33.27 mm  
 Height 1.31 in 33.27 mm  
 Weight 0.1455 lbs 66 g

**RF Connector**  
 Type SMA Female

**Waveguide Interface**  
 Waveguide Size WR-62

### Environmental Specifications

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

### Plotted and Other Data

Notes:



### Features:

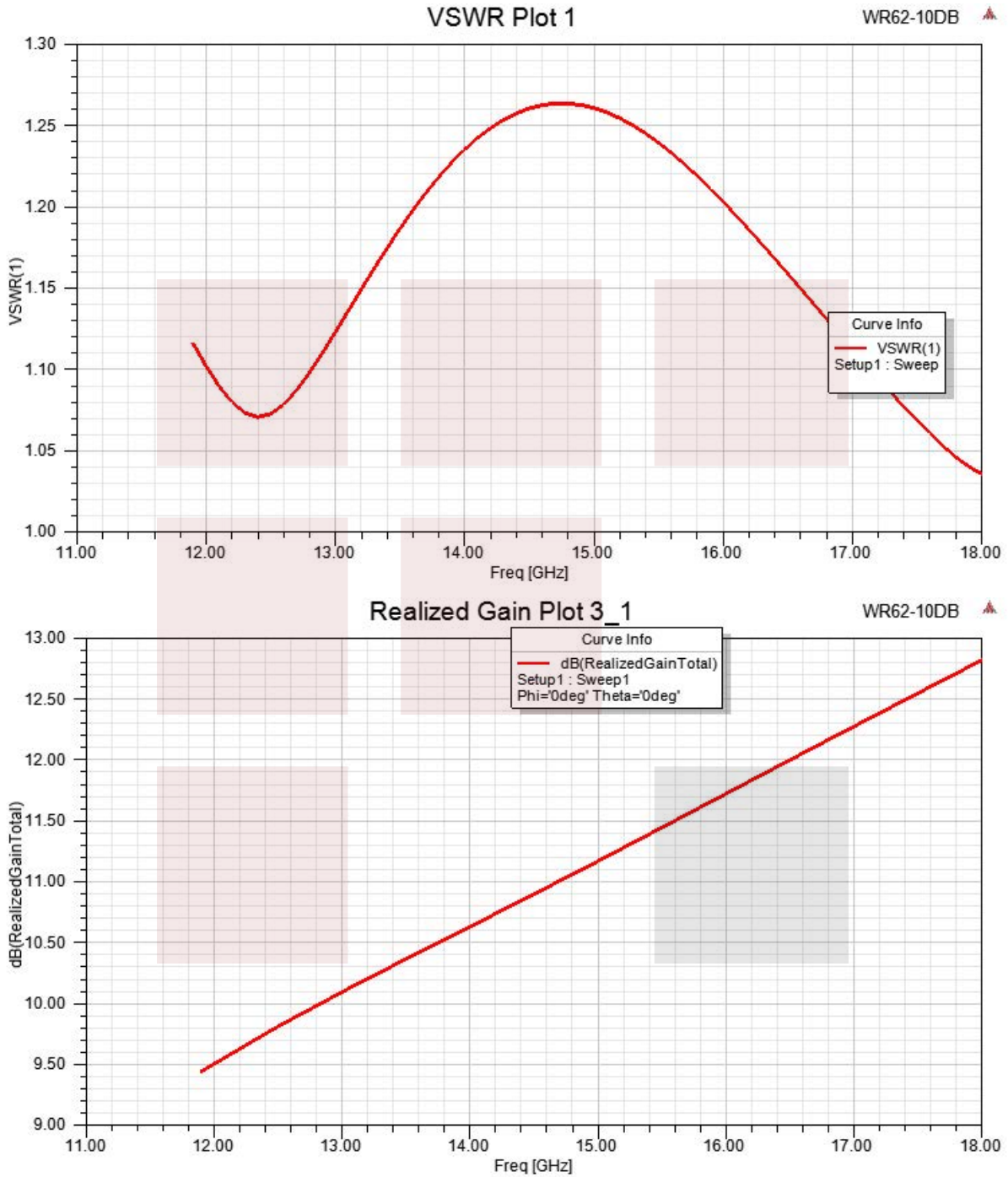
- 12.4 GHz to 18 GHz
- WR-62 Waveguide Band
- 10 dBi Nominal Gain
- SMA Female Connector

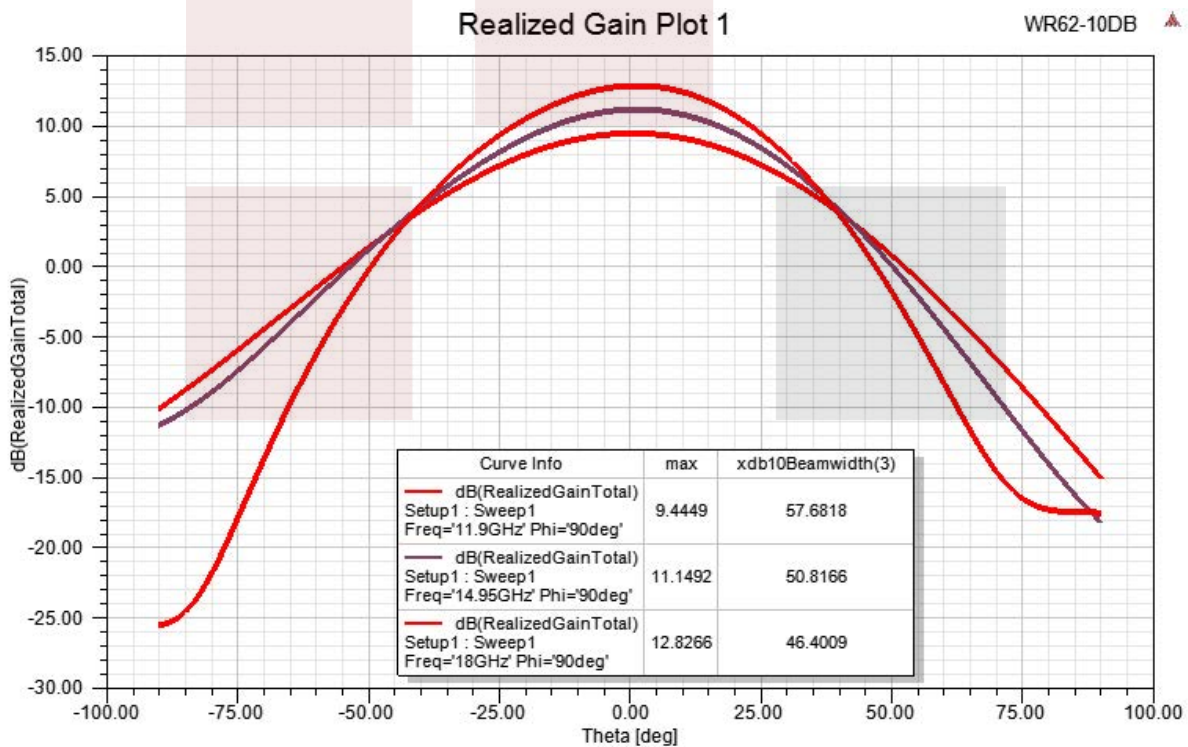
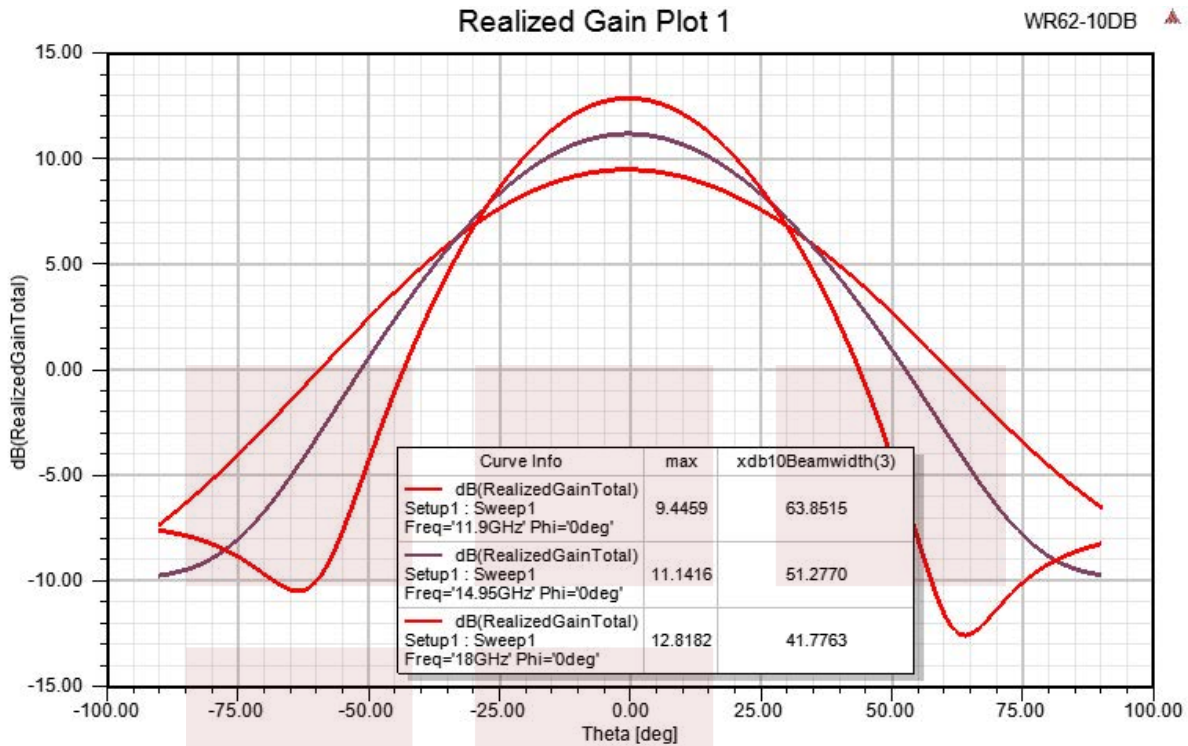
### Applications:

- 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-62 Standard Gain Horn with 10 dBi gain, SMA 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.

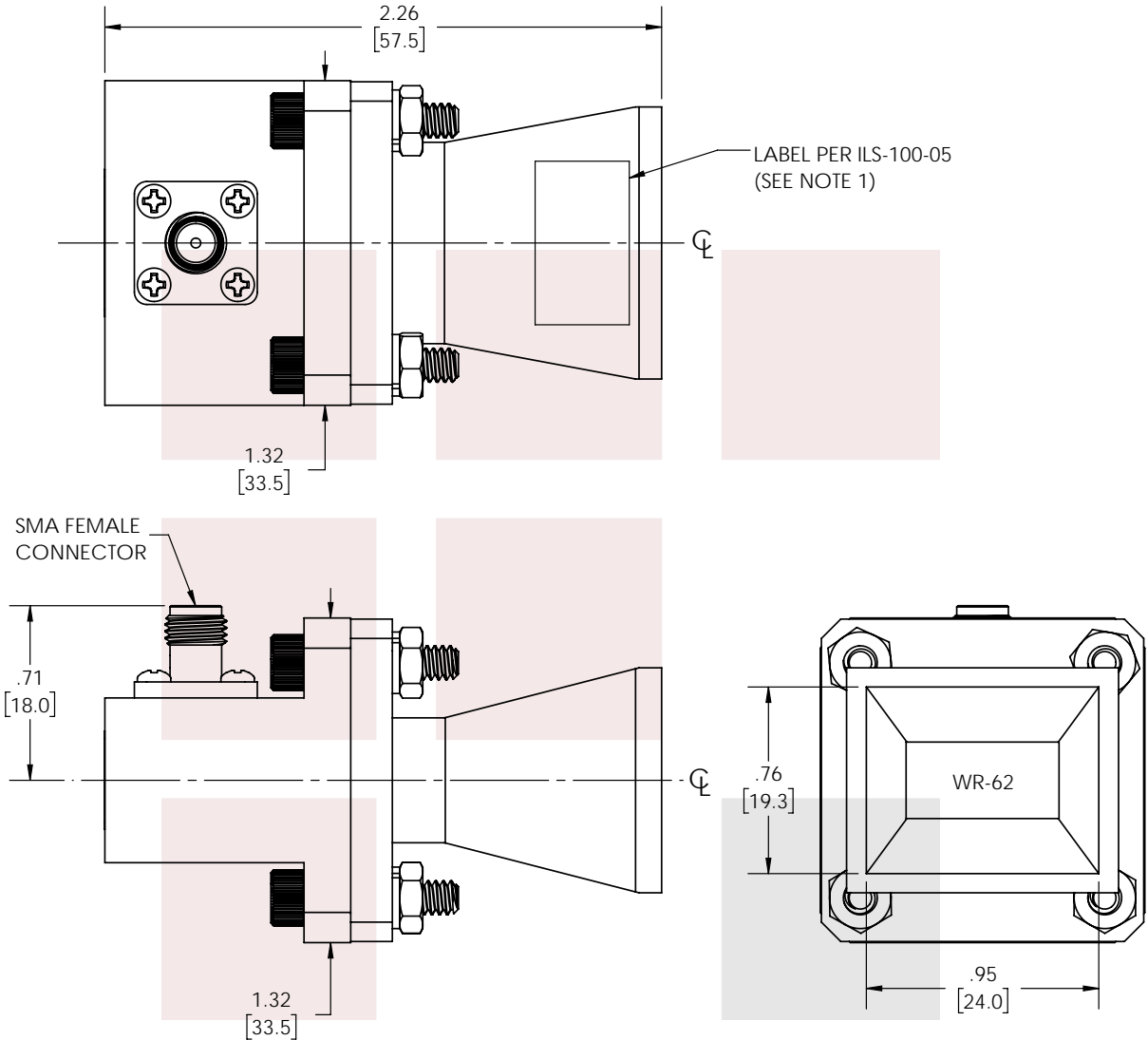
For additional information on this product, please click the following link: [WR-62 Standard Gain Horn with 10 dBi gain, SMA Female connector FMWAN062-10SF](#)

URL:

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10/04/2021	KHIETPAS



- NOTES:**  
1. LABEL PER ILS-100-05 (FOR INTERNAL REFERENCE ONLY)  
LABEL LOCATION FOR REFERENCE ONLY

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	TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
TITLE  WR-62 Standard Gain Horn with 10 dBi gain, SMA 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	SHEET 1 OF 1	
	.XXX = ±.005 [.13] ANGLES ± 1°	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0	SCALE N/A	
		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0	ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
		300 [7620] < L = +5%L / -0	SIZE A CAGE CODE 3FKR5 DRAWN BY BPUCHASKI ITEM NO. FMWAN062-10SF REV A	

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