

## WR-62 Standard Gain Horn with 15 dBi gain, SMA Male connector

The FMWAN062-15SM 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 Male waveguide to coaxial adapter and operates from 12.4 GHz to 18 GHz.

Our FMWAN062-15SM standard gain horn antenna 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 SMA Male 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 FMWAN062-15SM 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 Male 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 Male

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	12.4		18	GHz
<b>Waveguide Standard Gain Horn</b>				
Gain		15		dBi
Horizontal 3dB Beam Width		31		Degrees
Vertical 3dB Beam Width		32		Degrees
<b>Waveguide to Coaxial Adapter</b>				
Input VSWR			1.2:1	

### Mechanical Specifications

#### Size

Length 3.26 in 82.8 mm  
Width/Diameter 1.686 in 42.82 mm  
Height 1.213 in 30.81 mm  
Weight 0.1975 lbs 89.58 g

#### RF Connector

Type SMA Male

#### Waveguide Interface

Waveguide Size WR-62

### Environmental Specifications

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

### Plotted and Other Data

Notes:



### Features:

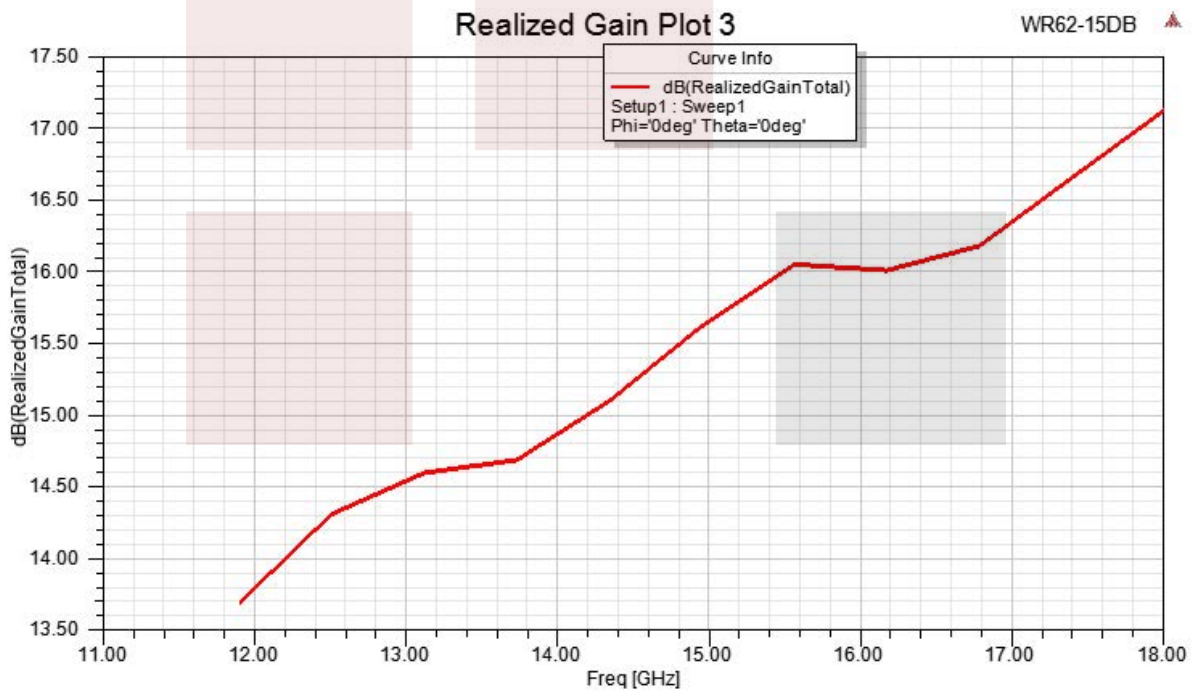
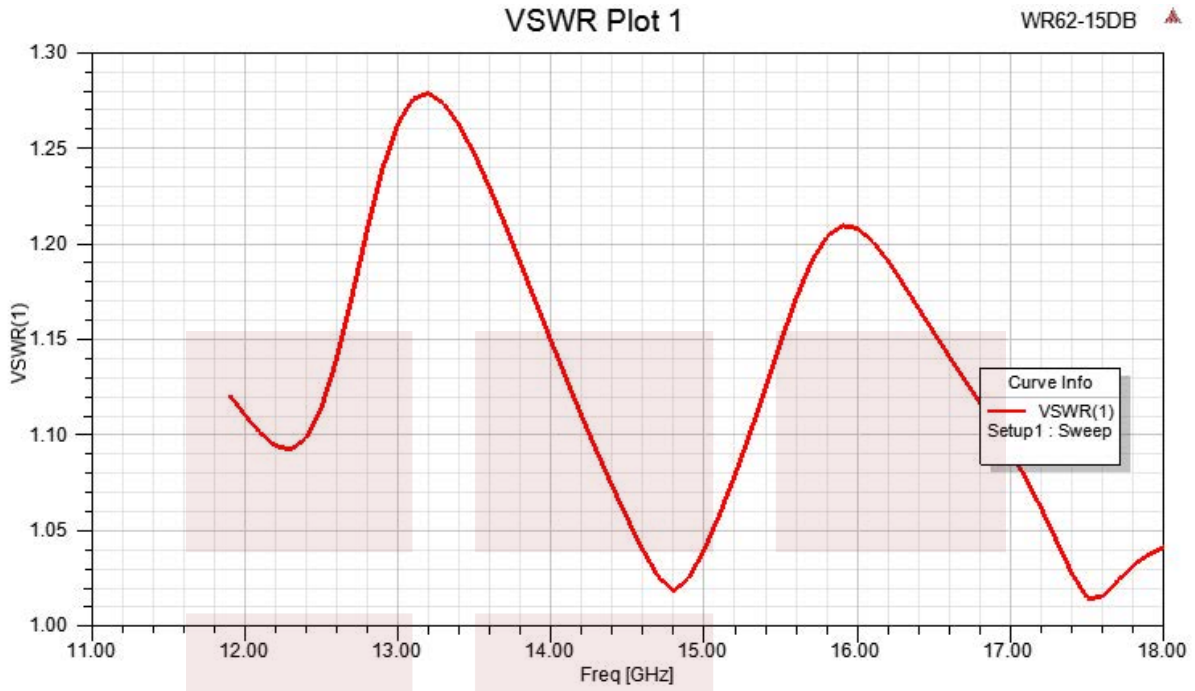
- 12.4 GHz to 18 GHz
- WR-62 Waveguide Band
- 15 dBi Nominal Gain
- SMA Male Connector

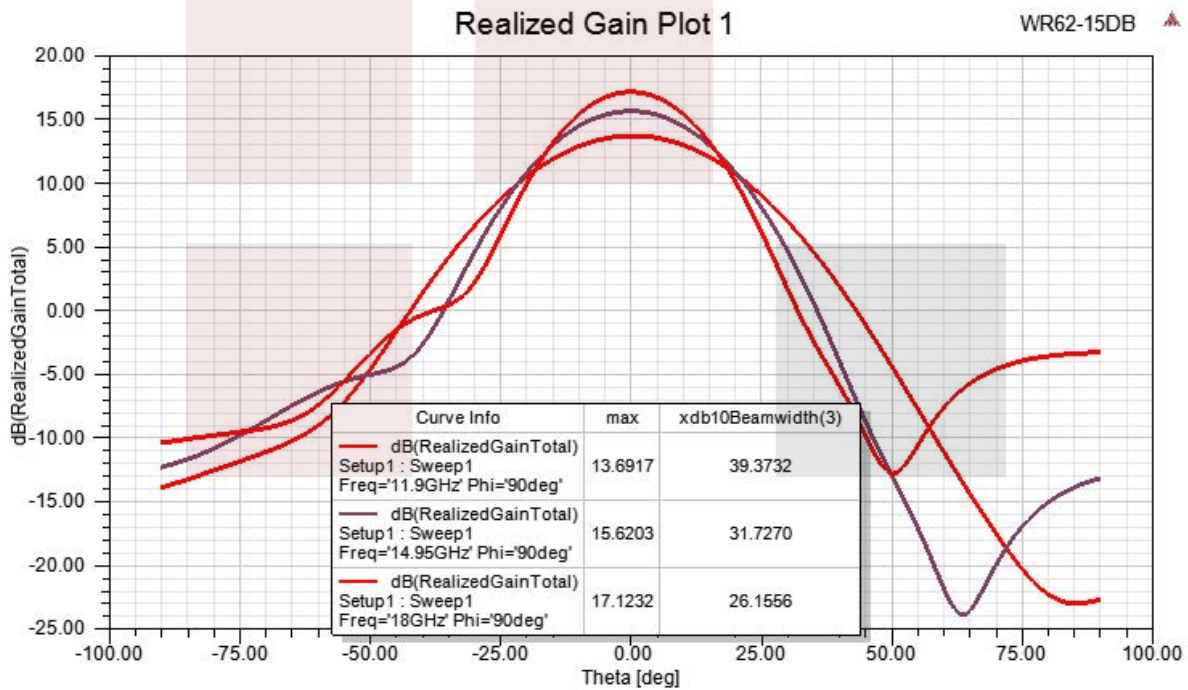
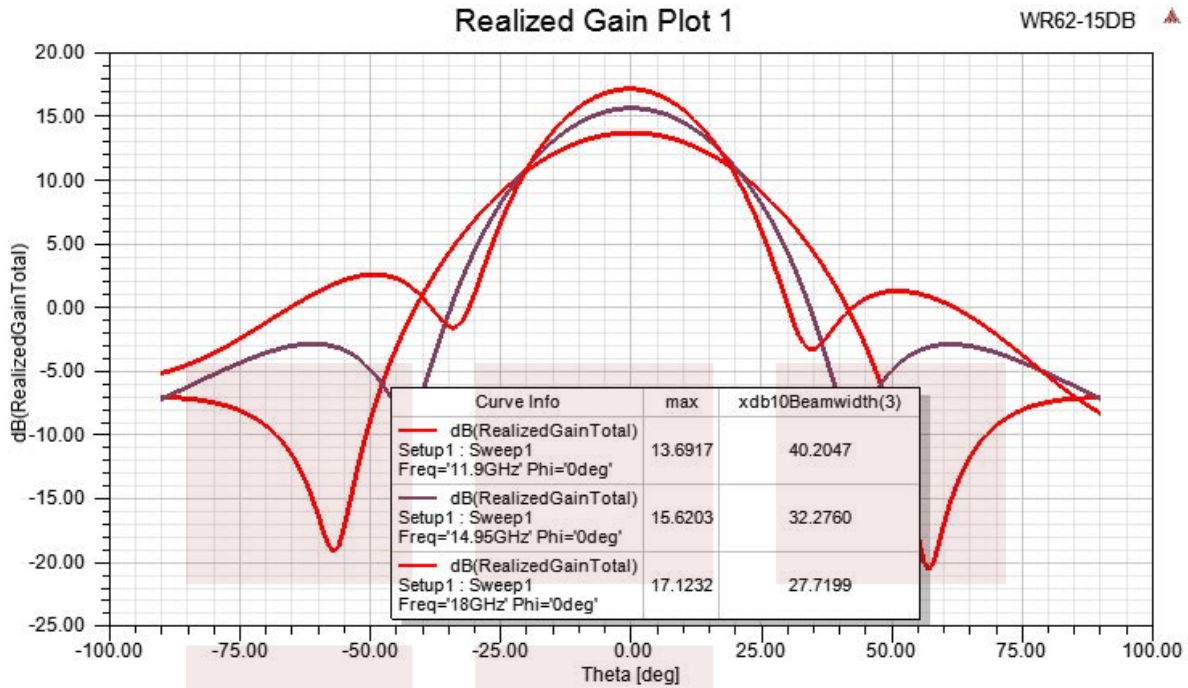
### Applications:

- 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**



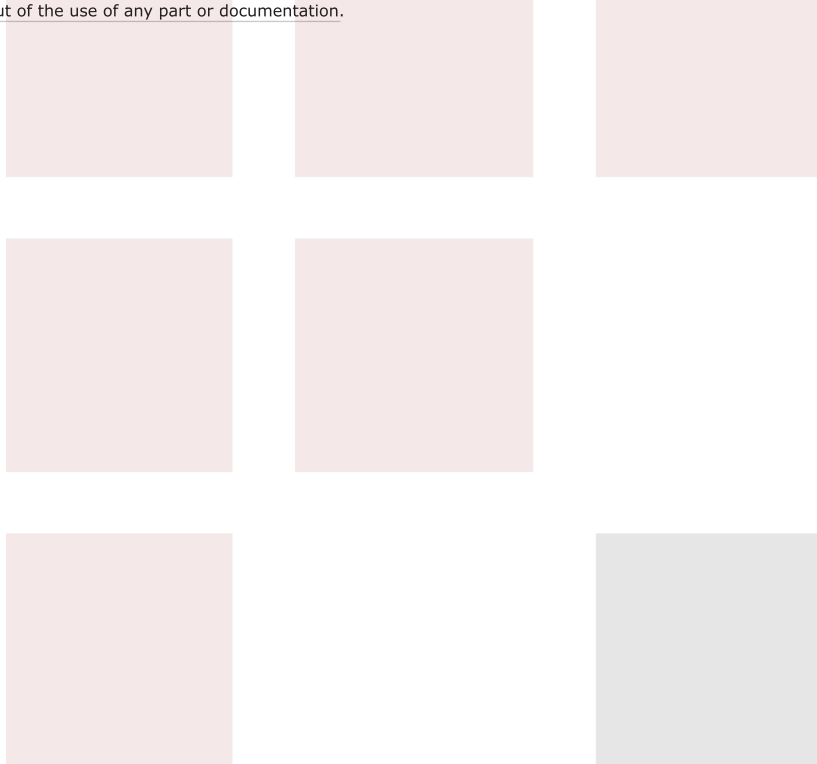


WR-62 Standard Gain Horn with 15 dBi gain, SMA Male connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

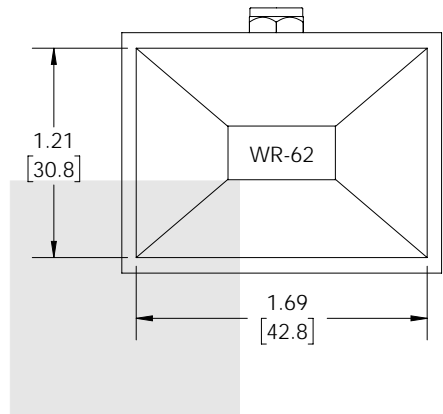
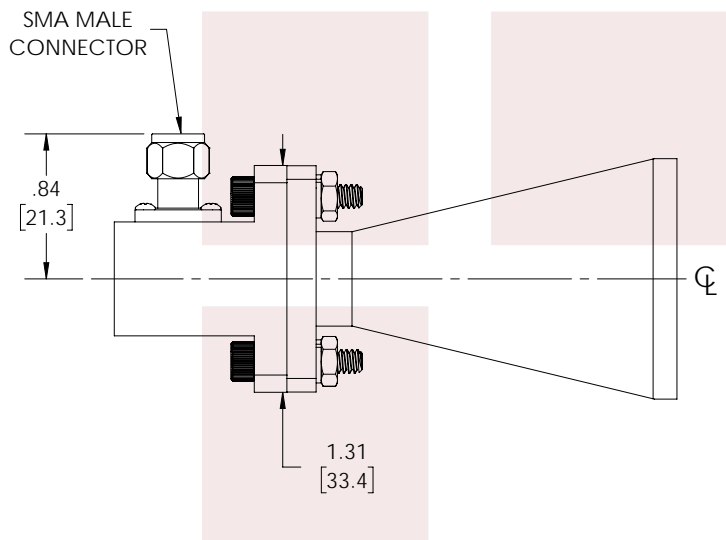
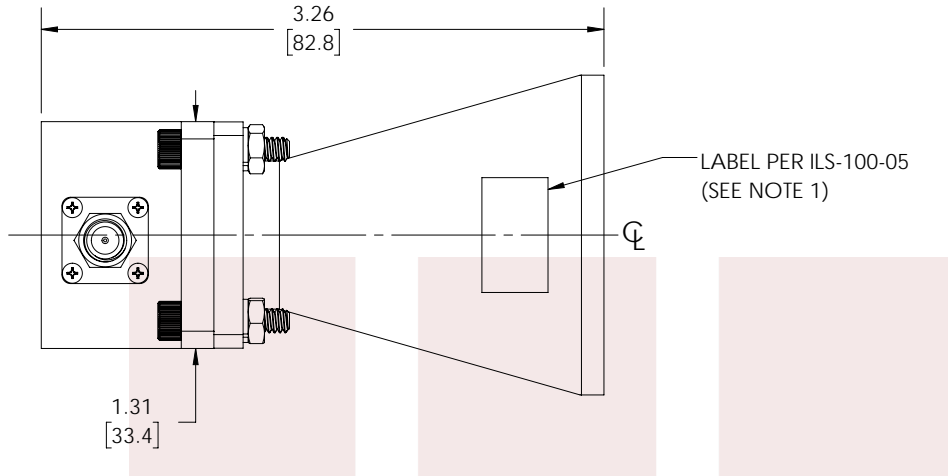
For additional information on this product, please click the following link: [WR-62 Standard Gain Horn with 15 dBi gain, SMA Male connector FMWAN062-15SM](#)

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

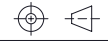
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TITLE  
WR-62 Standard Gain Horn with 15 dBi gain, SMA Male connector

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
.X = ±.2 [5.08]	FRACTIONS ± 1/32	L ≤ 12 [305] = +1 [25] / -0	
.XX = ±.02 [.51]		12 [305] < L ≤ 60 [1524] = +2 [51] / -0	
.XXX = ±.005 [.13]	ANGLES ± 1°	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0	
		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0	
		300 [7620] < L = +5%L / -0	

THIRD-ANGLE PROJECTION



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ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE  
N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY BPUCHASKI	ITEM NO. FMWAN062-15SM	REV A
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T-Rev.D