

WR-42 Standard Gain Horn with 10 dBi gain, 2.92mm Male connector

The FMWAN042-10KM 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-42 to 2.92mm Male waveguide to coaxial adapter and operates from 18 GHz to 26.5 GHz.

Our FMWAN042-10KM 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 2.92mm Male to WR-42 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FMWAN042-10KM 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-42 waveguide antennas with 2.92mm 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-42 Standard Gain Horn
Coaxial Interface	2.92mm Male

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	18		26.5	GHz
Waveguide Standard Gain Horn				
Gain		10		dBi
Horizontal 3dB Beam Width		52.1		Degrees
Vertical 3dB Beam Width		51.6		Degrees
Waveguide to Coaxial Adapter				
Input VSWR			1.4:1	

Mechanical Specifications

Size	
Length	2.499 in 63.47 mm
Width/Diameter	0.882 in 22.4 mm
Height	0.882 in 22.4 mm
Weight	0.01 lbs 4.54 g

RF Connector

Type	2.92mm Male
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Waveguide Interface

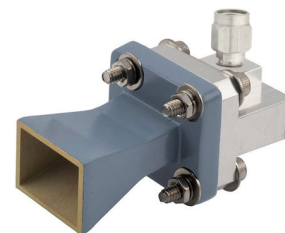
Waveguide Size	WR-42
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Environmental Specifications

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

Plotted and Other Data

Notes:



Features:

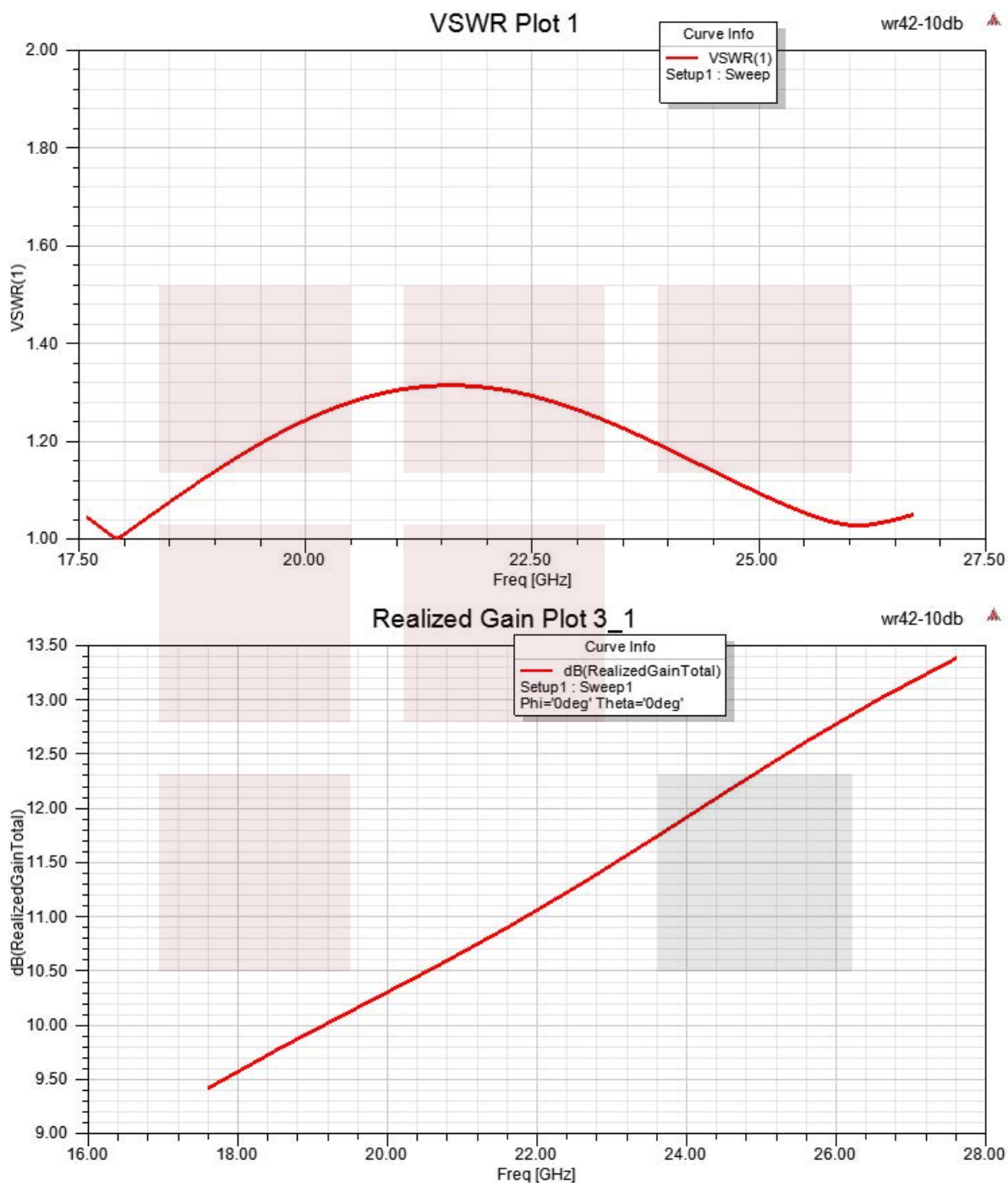
- 18 GHz to 26.5 GHz
- WR-42 Waveguide Band
- 10 dBi Nominal Gain
- 2.92mm Male Connector

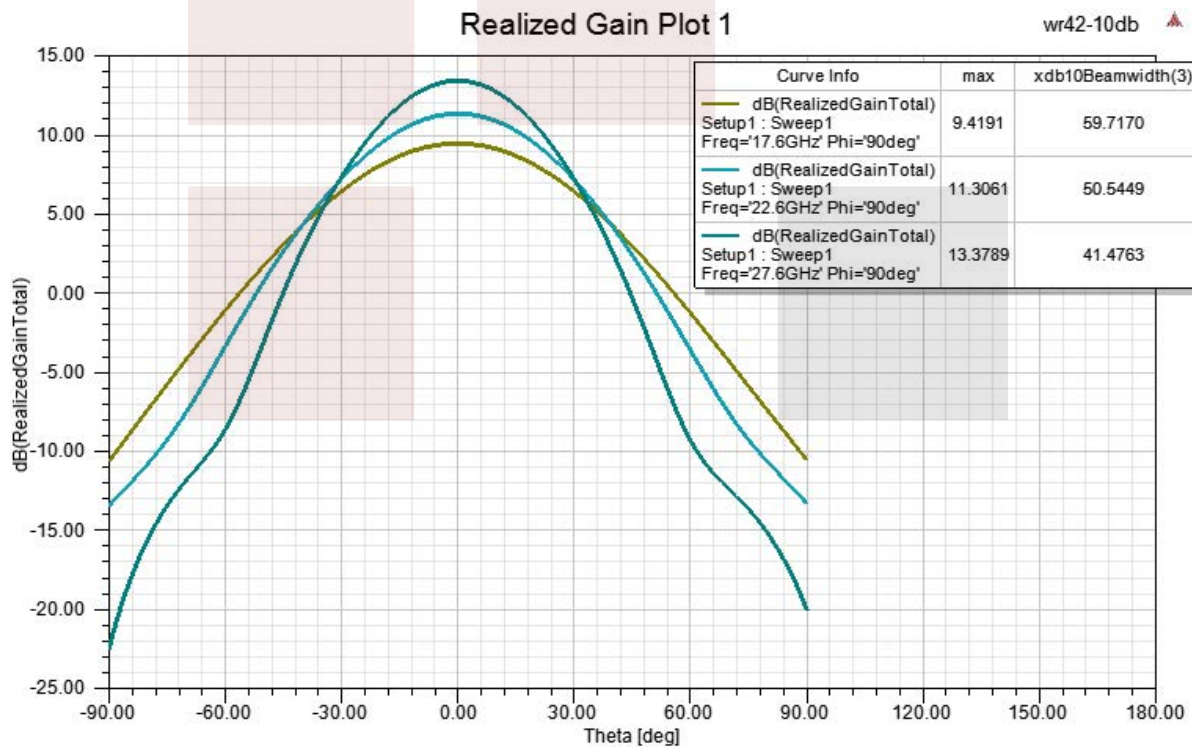
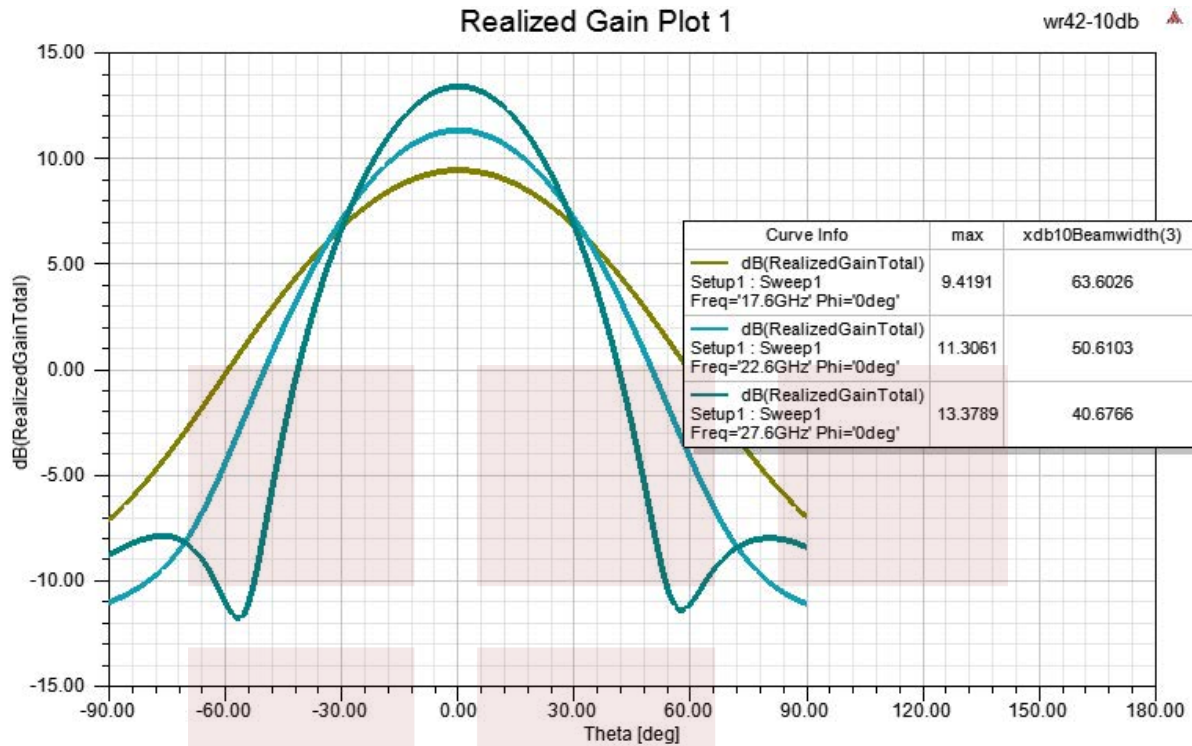
Applications:

- 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-42 Standard Gain Horn with 10 dBi gain, 2.92mm 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.

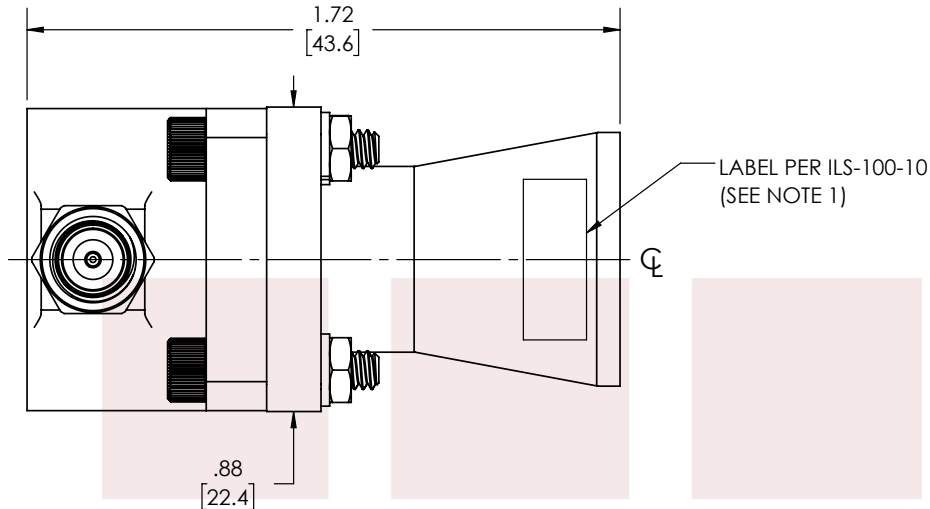
For additional information on this product, please click the following link: [WR-42 Standard Gain Horn with 10 dBi gain, 2.92mm Male connector FMWAN042-10KM](#)

URL: <https://www.fairviewmicrowave.com/wr-42-standard-gain-horn-10-dbi-2.92mm-fmwan042-10km-p.aspx>

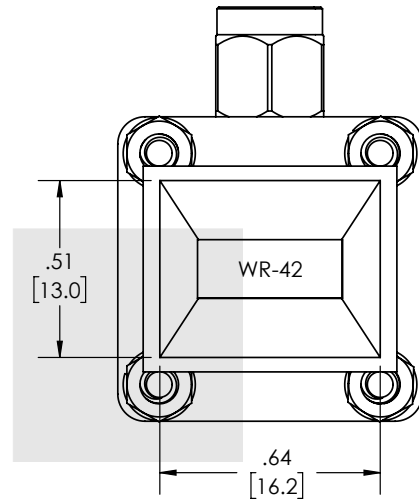
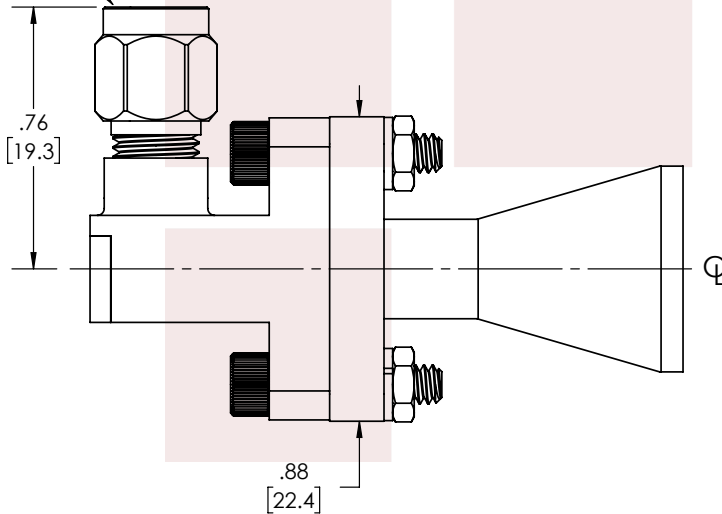
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10/04/2021	KHIETPAS



2.92mm MALE CONNECTOR



NOTES:

1. LABEL PER ILS-100-10 (FOR INTERNAL REFERENCE ONLY)
LABEL LOCATION FOR REFERENCE ONLY

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TITLE

WR-42 Standard Gain Horn with 10 dBi gain, 2.92mm Male connector

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

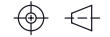
TOLERANCES:

.X = ±.2 [5.08] FRACTIONS
.XX = ±.02 [.51] ± 1/32
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
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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SHEET 1 OF 1

SCALE N/A

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	BPUCHASKI	FMWAN042-10KM	A

T-Rev.D