

WR-28 Standard Gain Horn with 15 dBi gain, 2.92mm Male connector, Integrated Cage-Style Mount



FM1WAN028-15KM

Features

- 26.5 GHz to 40 GHz
- WR-28 Waveguide Band
- 15 dBi Nominal Gain
- 2.92mm Male 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 FM1WAN028-15KM 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-28 to 2.92mm Male waveguide to coaxial adapter and operates from 26.5 GHz to 40 GHz.

Our FM1WAN028-15KM standard gain horn antenna with integrated cage-style mount has a nominal gain of 15 dBi with a Horizontal and Vertical HPAW (Half Power Beam Width) of 31 dB and 32 dB respectively. Fairview Microwave's 2.92mm Male to WR-28 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FM1WAN028-15KM 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-28 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-28
Coaxial Interface	2.92mm Male

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	26.5		40	GHz
Waveguide Standard Gain Horn		15		
Gain				
Horizontal Half Power Beam Width		31		Degrees
Vertical Half Power Beam Width		32		Degrees

Mechanical Specifications

Size	
Length	3.15 in [80.01 mm]
Width	3.15 in [80.01 mm]
Height	4.21 in [106.93 mm]
Weight	0.492 lbs [223.17 g]

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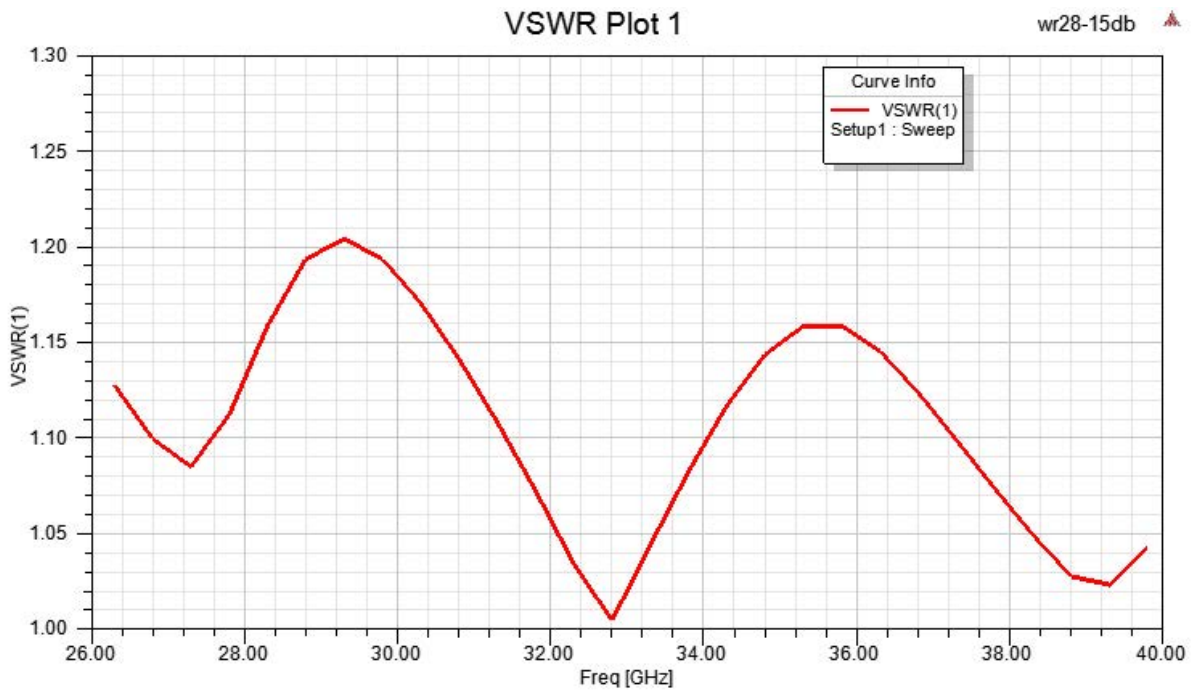
RF Connector	
Type	2.92mm Male
Waveguide Interface	
Waveguide Size	WR-28

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

Plotted and Other Data

Notes:

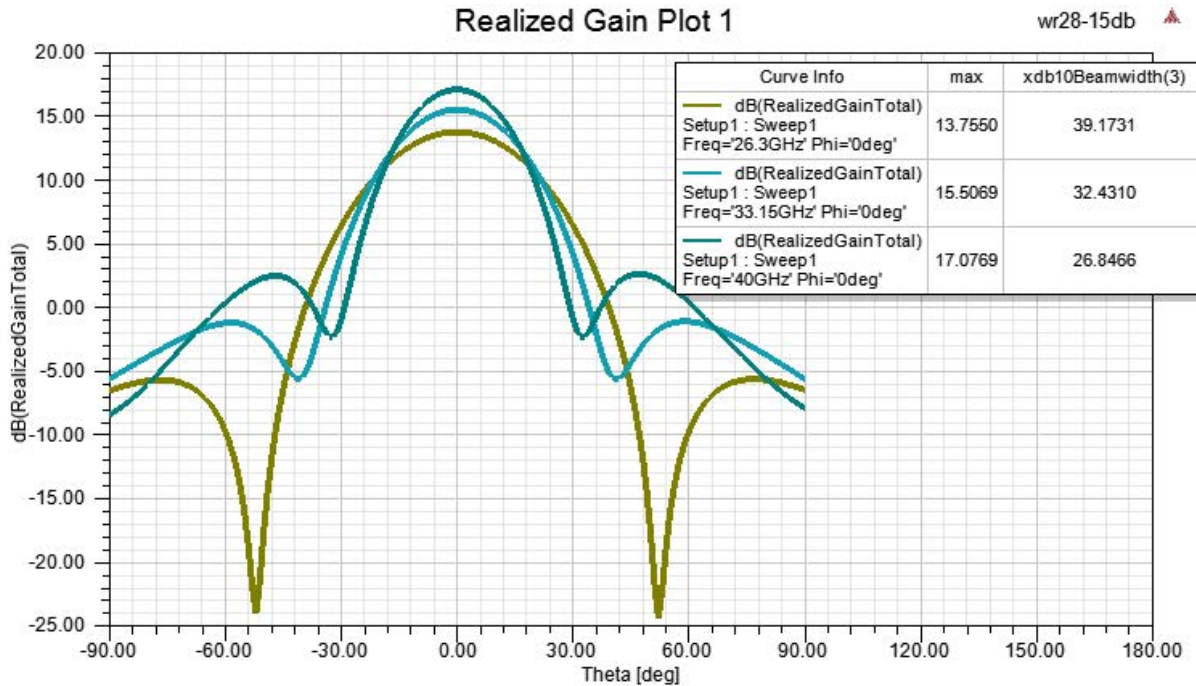
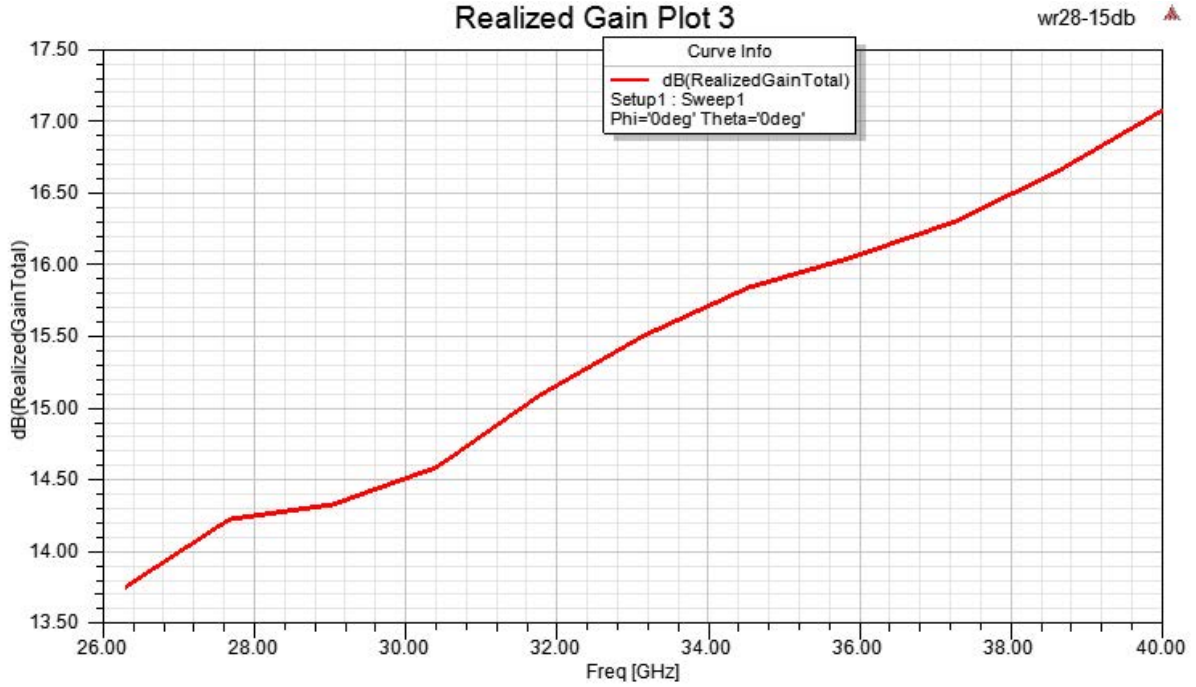
Typical Performance Data



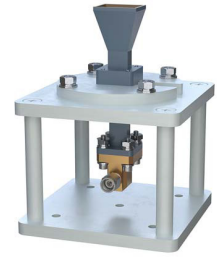
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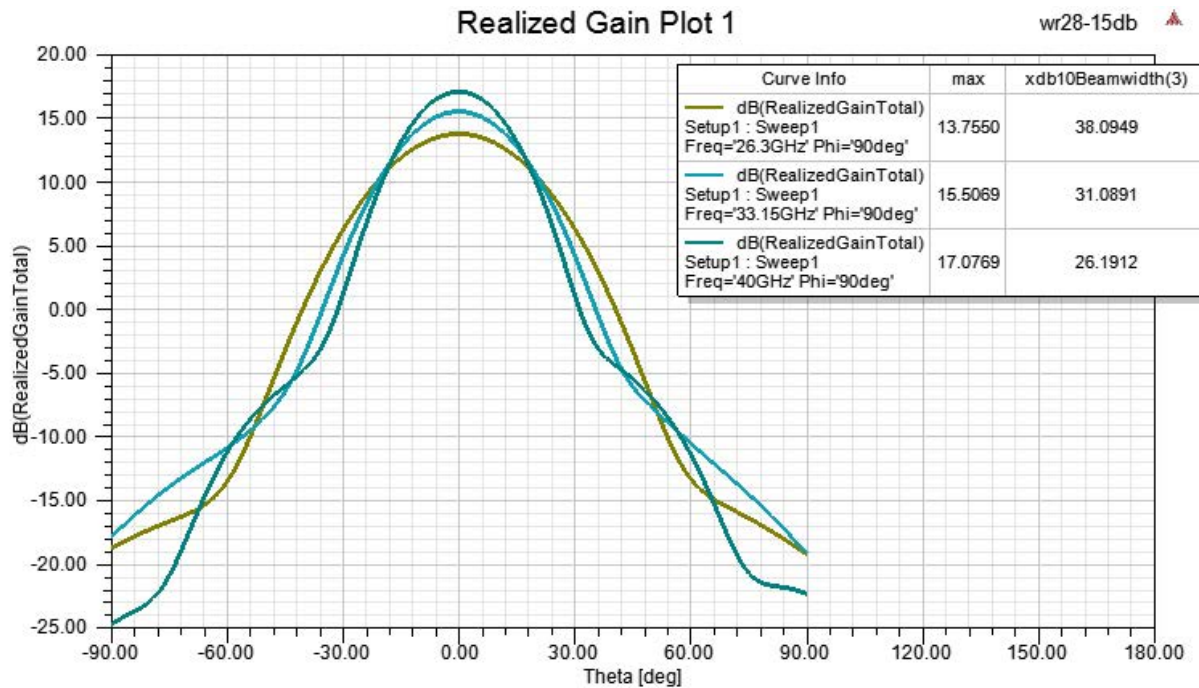
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WR-28 Standard Gain Horn with 15 dBi gain, 2.92mm Male connector, Integrated Cage-Style Mount from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

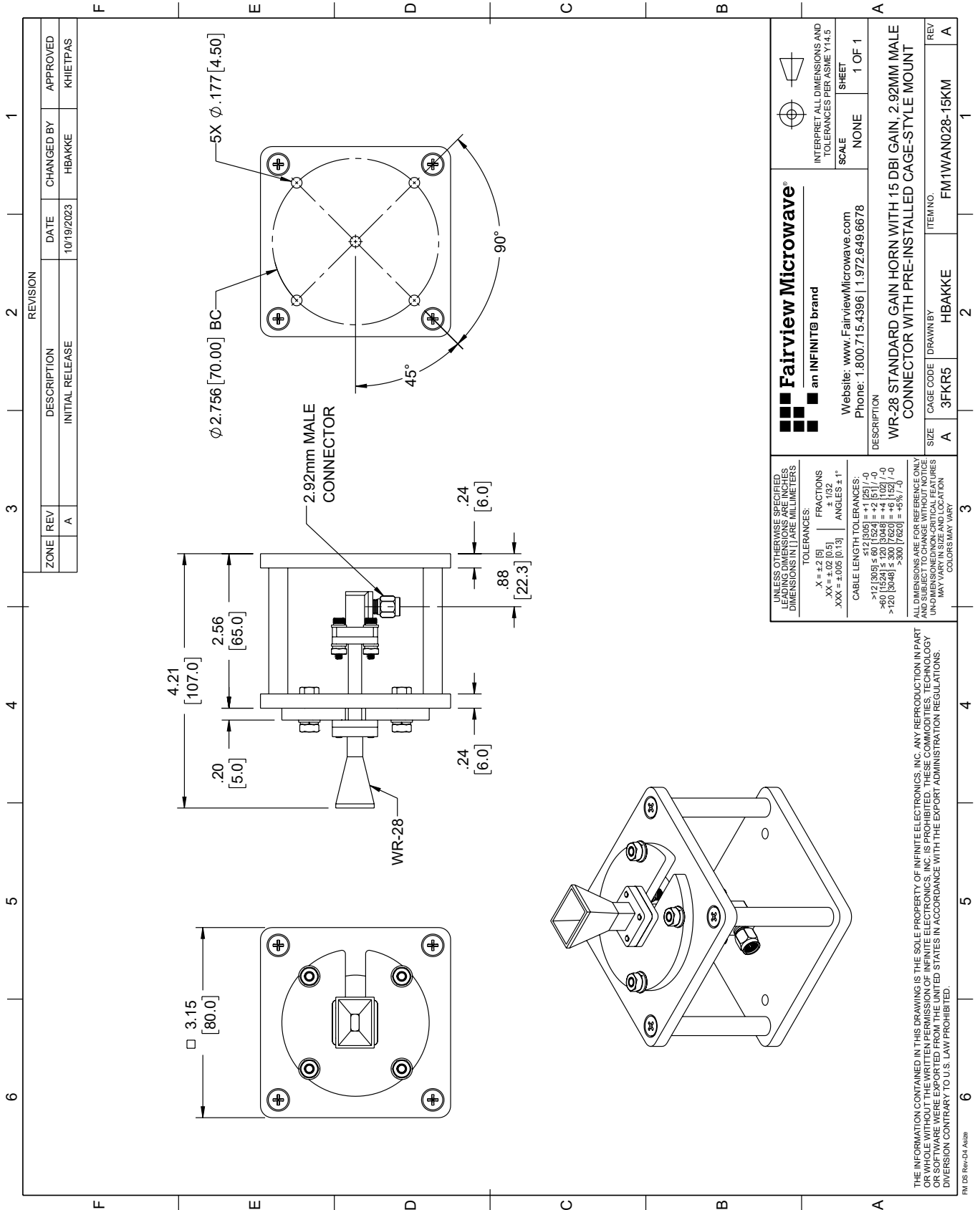
For additional information on this product, please click the following link: [WR-28 Standard Gain Horn with 15 dBi gain, 2.92mm Male connector, Integrated Cage-Style Mount FM1WAN028-15KM](#)

URL: <https://www.fairviewmicrowave.com/wr-28-standard-gain-horn-with-15-dbi-gain-2.92mm-male-connector-integrated-cage-style-mount-fm1wan028-15km-p.aspx>

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FM1WAN028-15KM CAD Drawing

WR-28 Standard Gain Horn with 15 dBi gain, 2.92mm Male connector, Integrated Cage-Style Mount



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION	INITIAL RELEASE	
A			HBAKKE	KHETTPAS

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Website: www.FairviewMicrowave.com
Phone: 1.800.715.4396 | 1.972.649.6678

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION: WR-28 STANDARD GAIN HORN WITH 15 DBI GAIN, 2.92MM MALE CONNECTOR WITH PRE-INSTALLED CAGE-STYLE MOUNT

SIZE: A
CAGE CODE: 3FKR5
DRAWN BY: HBAKKE
ITEM NO.: FM1WAN028-15KM
REV: A

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

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]

FRACTIONS: ± 1/32
 ANGLES: ± 1°

CABLE LENGTH TOLERANCES:
 <12 [305] ≤ 60 [1524] = ±1 [25] / -0
 >60 [1524] ≤ 120 [3048] = ±4 [102] / -0
 >120 [3048] ≤ 300 [7620] = ±5% / 0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS. COLORS MAY VARY.

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FM DS Rev-D4 Alt26