

WR-187 Waveguide Antenna With 15 dBi Gain and 3.95 GHz to 5.85 GHz



FMWAN187-15

Features

- WR-187 Rectangular Waveguide Interface
- 3.95 GHz to 5.85 GHz
- 15 dBi Nominal Gain
- CMR-187 Cover Flange
- C Band

Applications

- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems

Description

The FMWAN187-15 standard gain horn antenna (also known as waveguide horn) from Fairview Microwave has a nominal gain of 15 dBi. The Fairview Microwave 15 dBi WR-187 horn antenna operates from 3.95 GHz to 5.85 GHz (C Band). This WR-187 standard gain horn has a CMR-187 type flange. Waveguide standard gain horn antennas are used in a wide variety of applications due to their high power handling capability, low loss, high directivity, and near constant electrical performance. These units are Aluminum and Powder coated for increased resistance to weather and corrosion with a Horizontal and Vertical Beam Width of 31 and 32 degrees respectively. Fairview Microwave's WR-187 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. C Band standard gain horn antenna can ship the same day to anywhere in the world. The WR-187 FMWAN187-15 waveguide horn is part of over 40,000 RF, microwave and millimeter wave components available from Fairview Microwave.

Configuration

Design	WR-187
Polarization	Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	3.95		5.85	GHz
Nominal Gain		15		dB
Horizontal Half Power Beam Width		31		Degrees
Vertical Half Power Beam Width		32		Degrees
VSWR		1.3:1		

Mechanical Specifications

Size

Length	6.378 in [162 mm]
Width	5.073 in [128.85 mm]
Height	3.65 in [92.71 mm]
Weight	0.65 lbs [294.84 g]

Waveguide Interface

Waveguide Size	WR-187
Flange Type	CMR-187
Body Material and Plating	Aluminum, Gray

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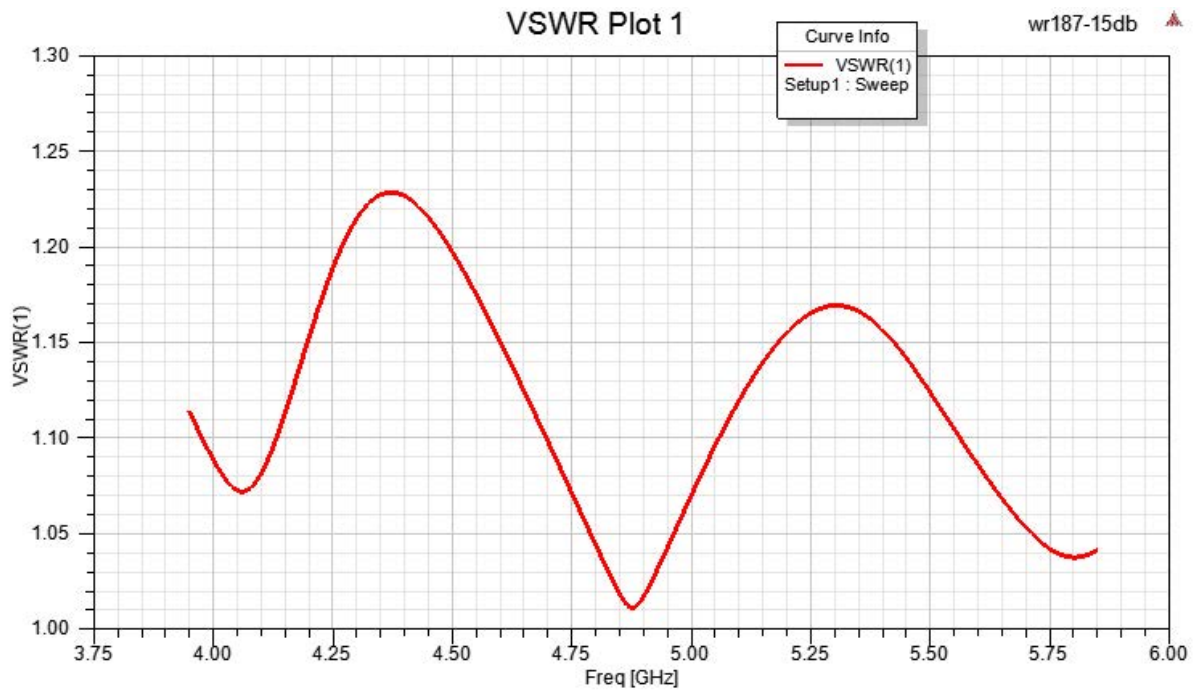
FMWAN187-15

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

Plotted and Other Data

Notes:

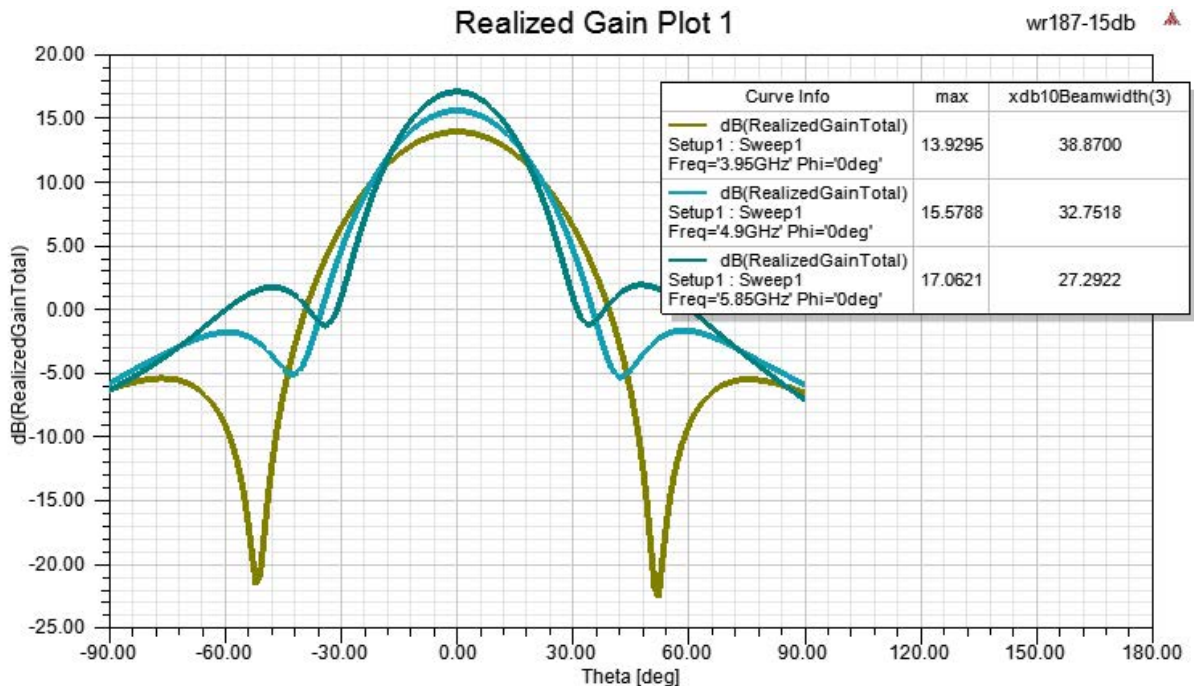
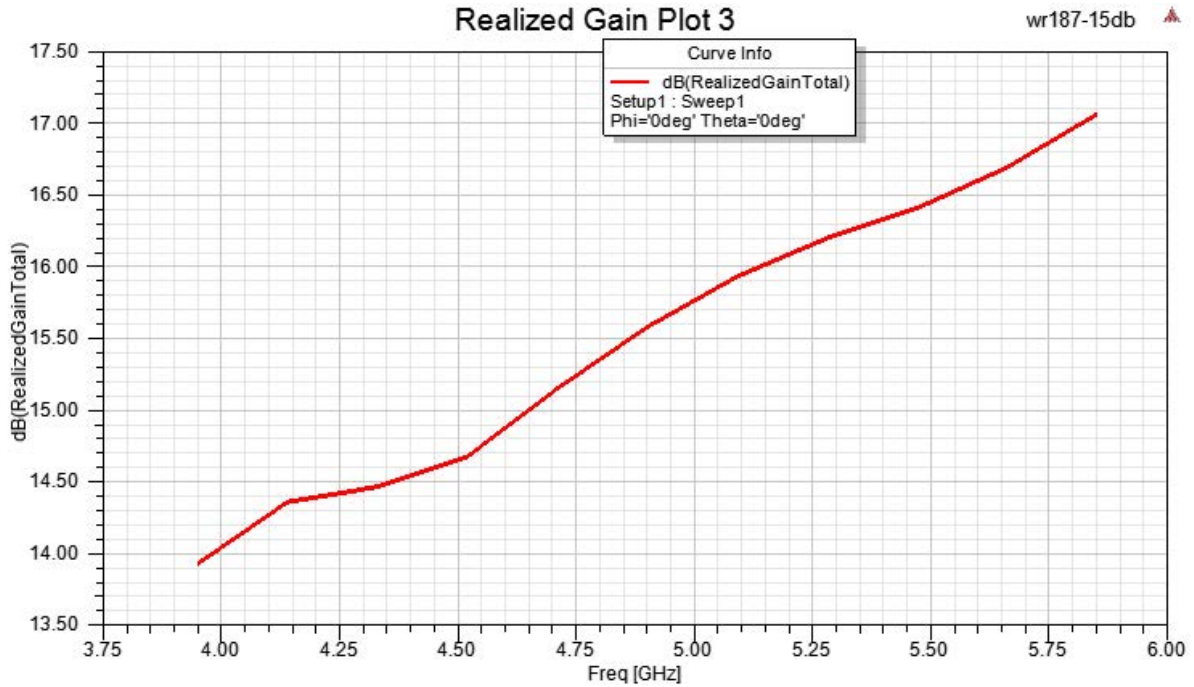
Typical Performance Data



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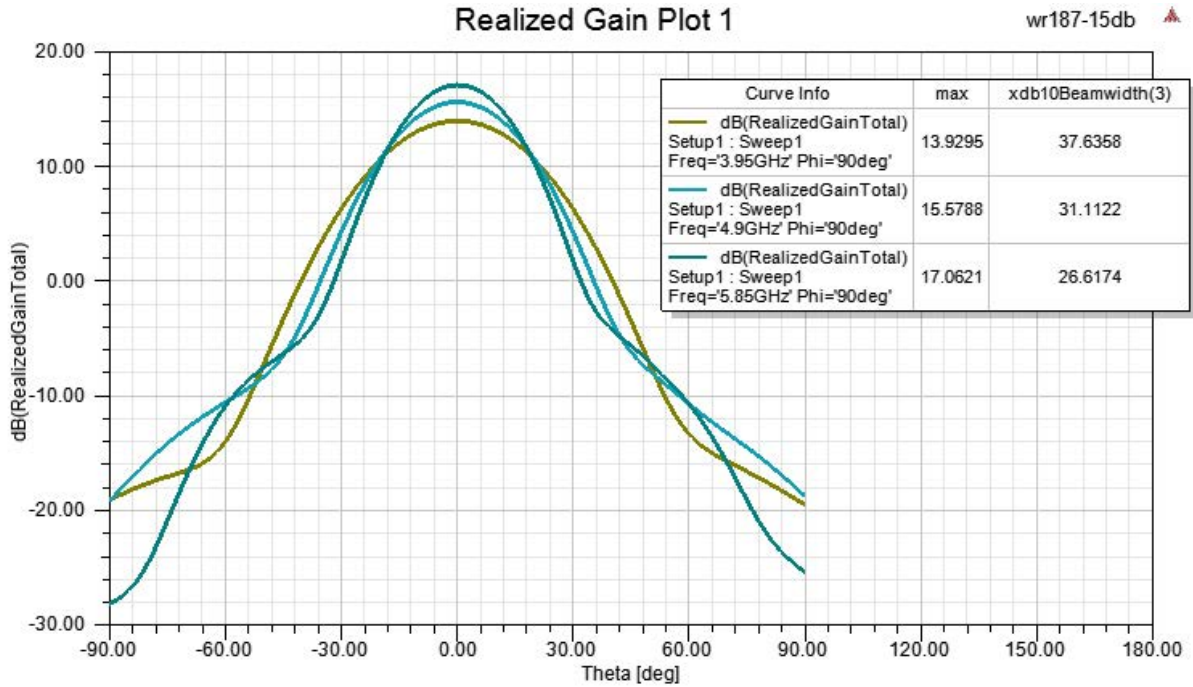
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FMWAN187-15



WR-187 Waveguide Antenna With 15 dBi Gain and 3.95 GHz to 5.85 GHz 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.

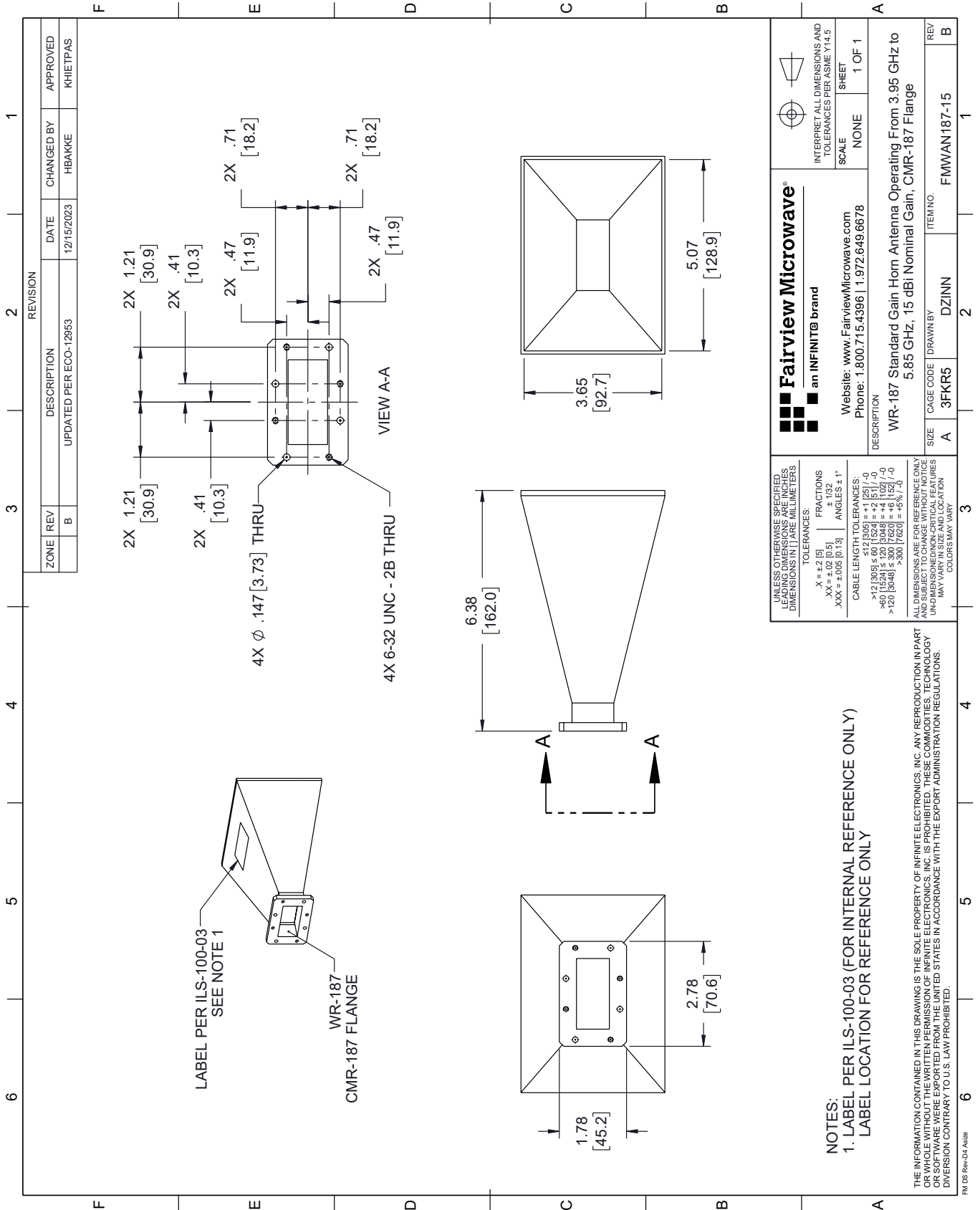
For additional information on this product, please click the following link: [WR-187 Waveguide Antenna With 15 dBi Gain and 3.95 GHz to 5.85 GHz FMWAN187-15](https://www.fairviewmicrowave.com/wr-187-waveguide-standard-gain-horn-15-db-none-fmwan187-15-p.aspx)

URL: <https://www.fairviewmicrowave.com/wr-187-waveguide-standard-gain-horn-15-db-none-fmwan187-15-p.aspx>

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FMWAN187-15 CAD Drawing

WR-187 Waveguide Antenna With 15 dBi Gain and 3.95 GHz to 5.85 GHz



REVISION		DESCRIPTION	DATE	CHANGED BY	APPROVED
ZONE	REV	UPDATED PER ECO-12963	12/15/2023	HBAKKE	KHIEPPAS
	B				

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION: WR-187 Standard Gain Horn Antenna Operating From 3.95 GHz to 5.85 GHz, 15 dBi Nominal Gain, CMR-187 Flange

SIZE: A
CAGE CODE: 3FKR5
DRAWN BY: DZINN
ITEM NO.: FMWAN187-15

REV: B

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 (15.24) = ±.1 (2.5) / -0
 >12 (305) ≤ 60 (1524) = ±.1 (2.5) / -0
 >60 (1524) ≤ 120 (3048) = ±.4 (10.2) / -0
 >120 (3048) ≤ 300 (7620) = ±.6 (15.2) / -0
 >300 (7620) = ±.8 (20.3) / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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

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