

WR-187 Standard Gain Horn Antenna Operating From 3.95 GHz to 5.85 GHz, 10 dBi Nominal Gain, CMR-187 Flange

The FMWAN187-10 standard gain horn antenna (also known as waveguide horn) from Fairview Microwave has a nominal gain of 10 dBi. The Fairview Microwave 10 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 52.1 and 51.6 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 FMWAN187-10 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	Min	Typ	Max	Units
Frequency Range	3.95		5.85	GHz
Nominal Gain		10		dB
Horizontal 3dB Beam Width		52.1		Deg
Vertical 3dB Beam Width		51.6		Deg
VSWR		1.3:1		

Mechanical Specifications

Size

Length	3.386 in [86 mm]
Width/Diameter	2.845 in [72.26 mm]
Height	2.284 in [58.01 mm]

Waveguide Interface

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



Features:

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

Applications:

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

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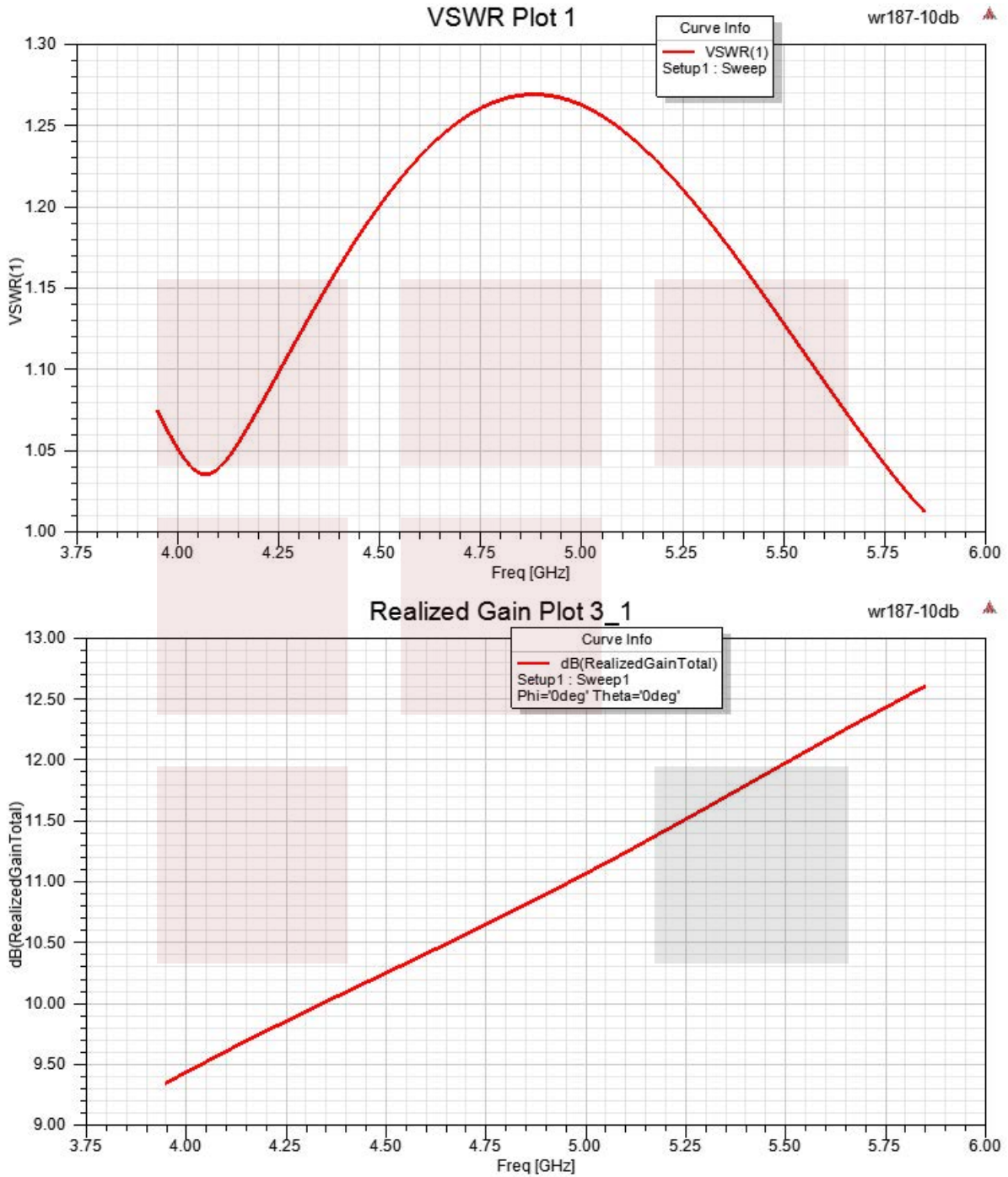
Compliance Certifications (see [product page](#) for current document)

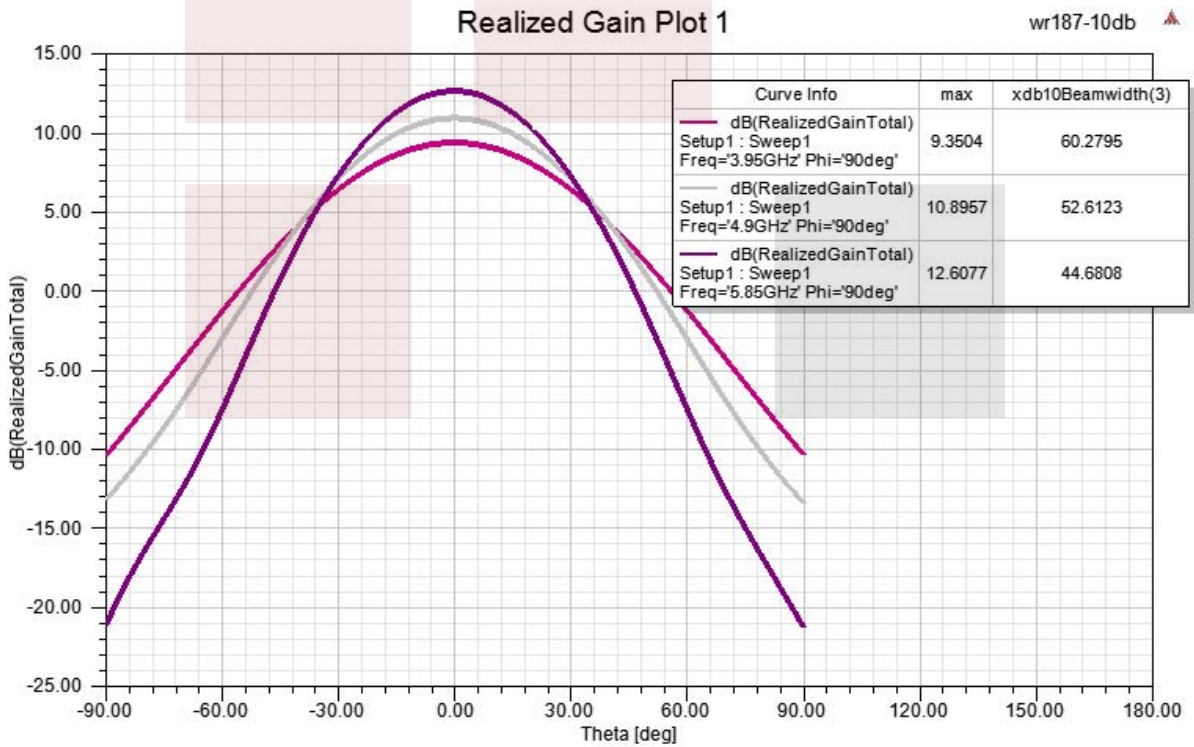
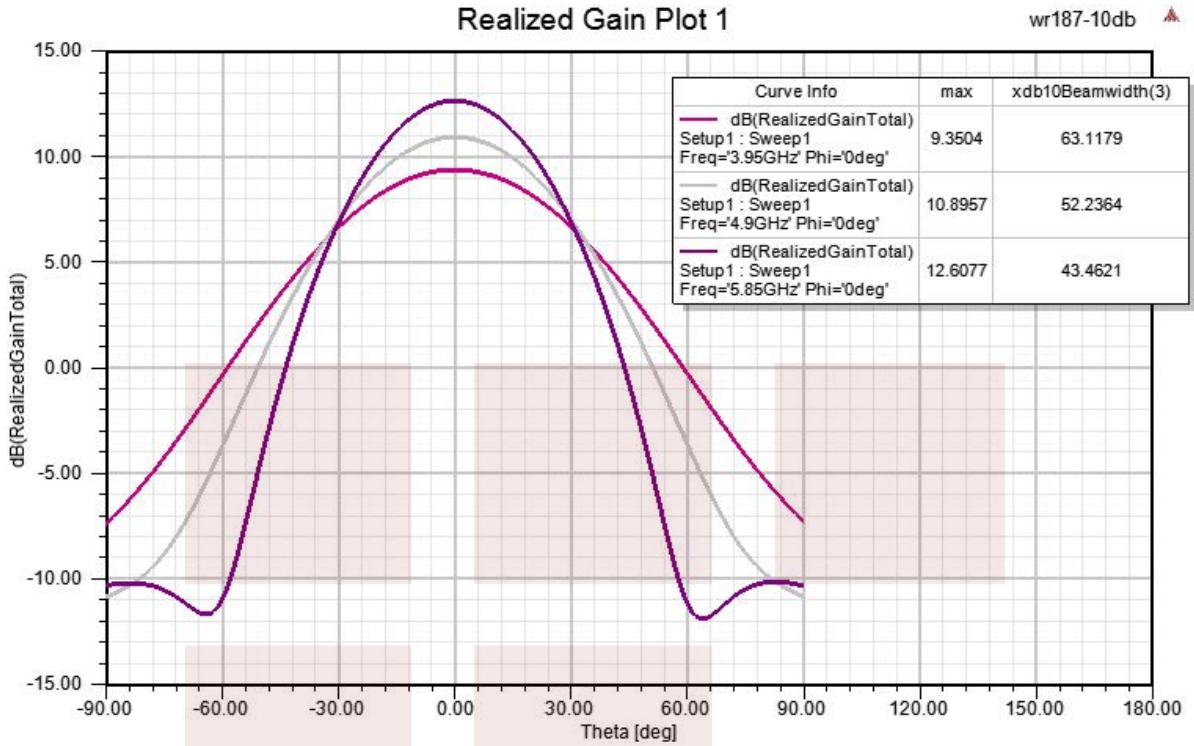
Plotted and Other Data

Notes:

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Typical Performance Data





WR-187 Standard Gain Horn Antenna Operating From 3.95 GHz to 5.85 GHz, 10 dBi Nominal Gain, CMR-187 Flange 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.

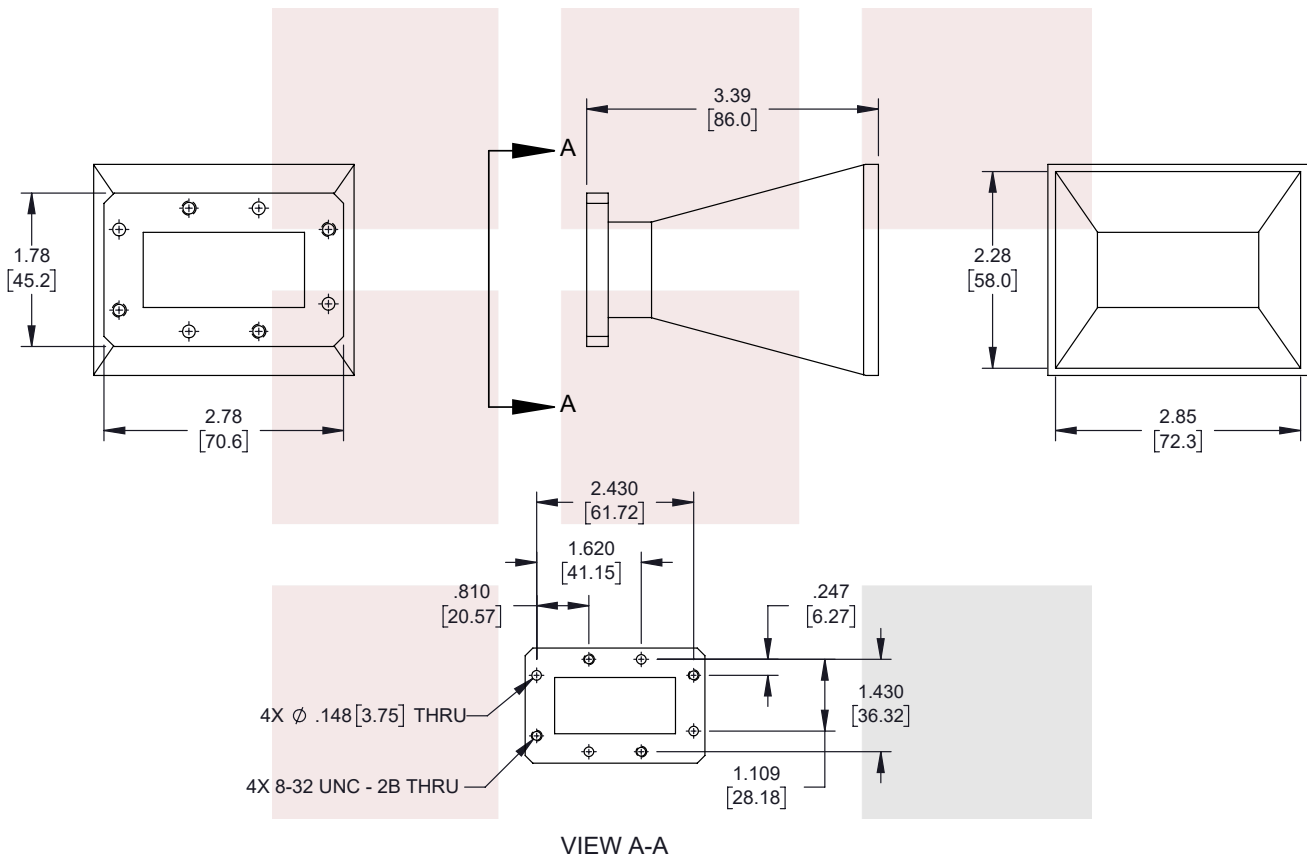
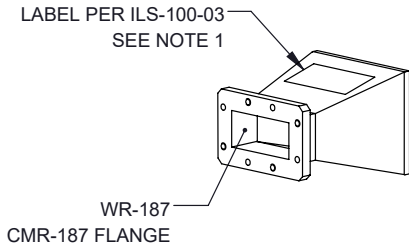
For additional information on this product, please click the following link: [WR-187 Standard Gain Horn Antenna Operating From 3.95 GHz to 5.85 GHz, 10 dBi Nominal Gain, CMR-187 Flange FMWAN187-10](#)

URL: <https://www.fairviewmicrowave.com/wr-187-waveguide-standard-gain-horn-10-db-none-fmwan187-10-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	06/09/2021	KHIETPAS



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

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TITLE
WR-187 Standard Gain Horn Antenna Operating From 3.95 GHz to 5.85 GHz, 10 dBi Nominal Gain, CMR-187 Flange

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		THIRD-ANGLE PROJECTION	
TOLERANCES:			
.X = ±.2 [5.08] FRACTIONS ± 1/32 .XX = ±.02 [.51] ANGLES ± 1° .XXX = ±.005 [.13]		THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.	
CABLE LENGTH (L) TOLERANCES:		SHEET 1 OF 1	
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		SCALE N/A	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			
SIZE A	CAGE CODE 3FKR5	DRAWN BY DZINN	ITEM NO. FMWAN187-10
			REV A

T-Rev.D