

Broadband Gain Horn Antenna, 18 GHz to 50 GHz 20 dBi Gain, 2.4mm Female Connector

The FMWAN1156 broadband gain horn antenna (waveguide horn) from Fairview is part of our comprehensive selection of waveguide antennas. This broadband horn features a 2.4mm Female coaxial connector and operates from 18 to 50 GHz.

Our FMWAN1156 broadband gain horn antenna has a nominal gain of 20 dBi with a typical input VSWR of 1.5:1. Fairview's double-ridge broadband horns are available in 10, 11, 13, 15, and 20 dBi models with varying cross band frequency ranges to suit all application needs.

Waveguide antennas, such as the FMWAN1156 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 waveguide antennas with 2.4mm Female interface are part of over 40,000 RF, microwave, and millimeter wave components from Fairview available worldwide and Ship same day.

Configuration

Pattern	Directional
Polarization	Linear
Antenna Design Type	Broadband Gain Horn
RF Connector	2.4mm Female

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	18		50	GHz
Gain		20		dBi
VSWR		1.5:1		

Mechanical Specifications

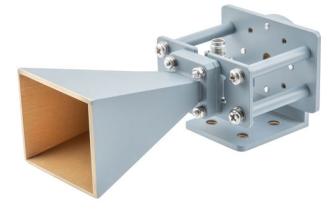
Size	
Length	2.16 in 54.86 mm
Width	2.16 in 54.86 mm
Height	4.44 in 112.78 mm
Weight	0.375 lbs 170.1 g
Body Material and Plating	Aluminum, Powder Coat
RF Connector	2.4mm Female

Environmental Specifications

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

Plotted and Other Data

Notes:



Features:

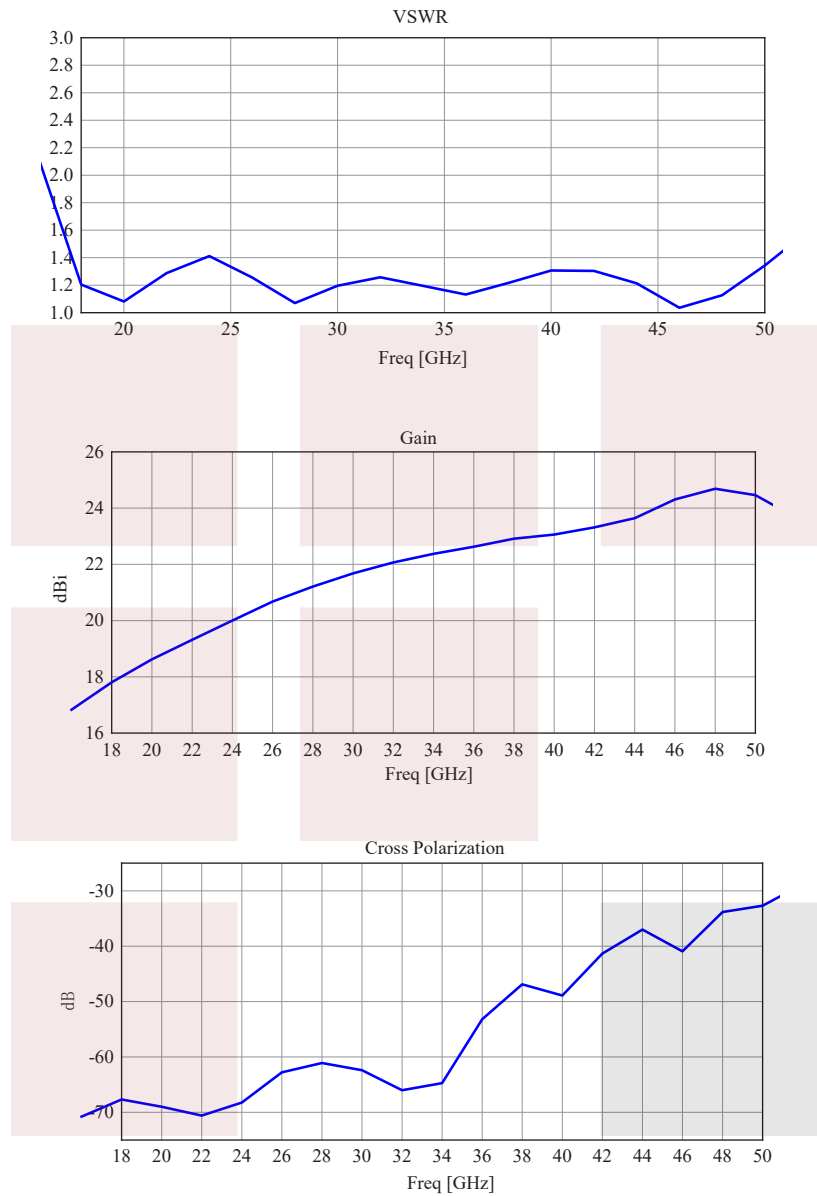
- Antenna Measurements
- Laboratory Use
- Microwave Testing
- Radome Testing
- EMC measurement
- Satellite Antenna Testing
- Radar Cross Section

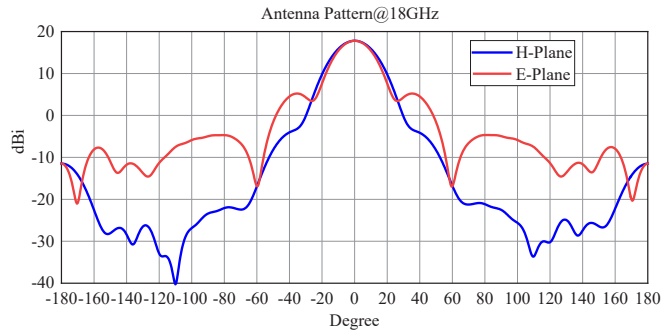
Applications:

- Ultra Broadband 18 GHz to 50 GHz
- Double-Ridge Waveguide
- Linearly Polarized
- 20 dBi Nominal Gain
- 2.4mm Female Connector
- Mounting Bracket Included
- Powder Coated Aluminum

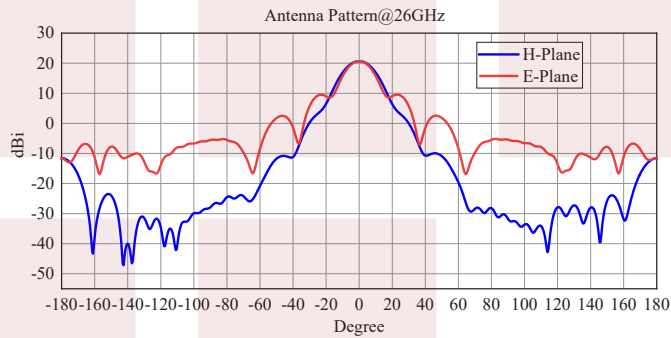
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www.fairviewmicrowave.com
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Typical Performance Data

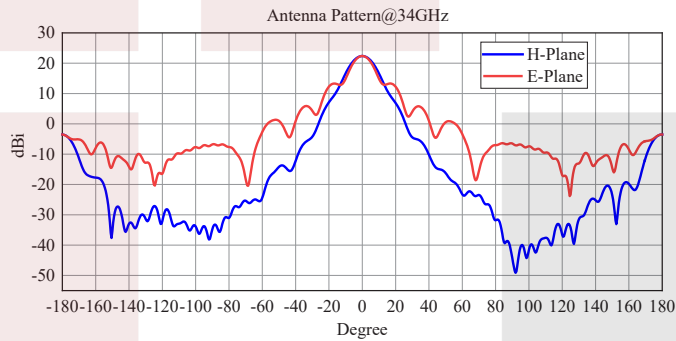




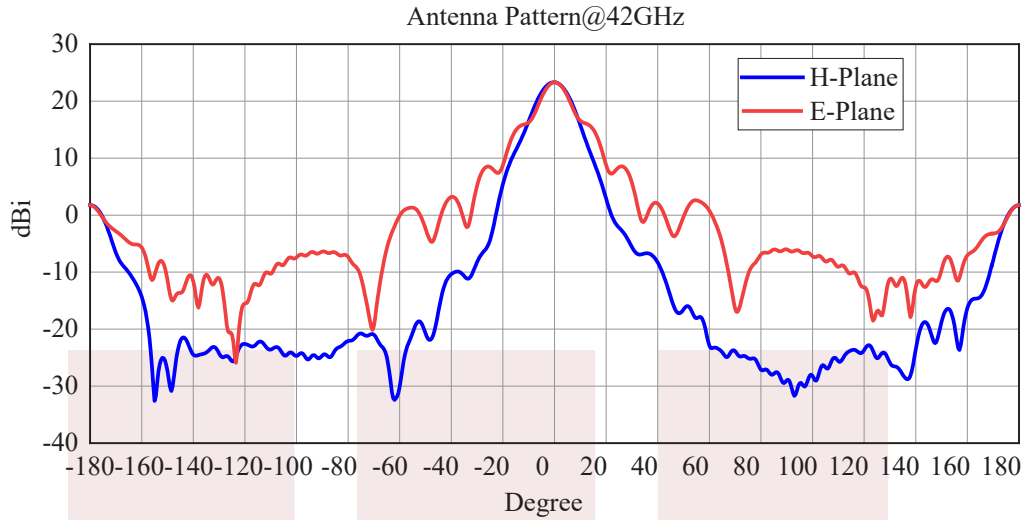
3dB beamwidth (°): E plane: 22.42 H plane: 24.88



3dB beamwidth (°): E plane: 15.76 H plane: 17.86

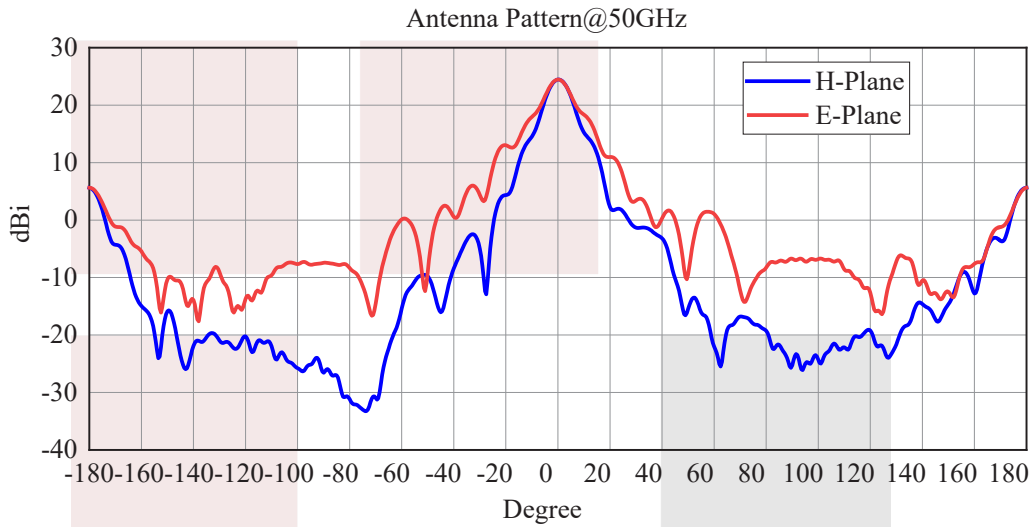


3dB beamwidth (°): E plane: 12.3 H plane: 14.36



3dB beamwidth (°): E plane: 10.94

H plane: 12.55



3dB beamwidth (°): E plane: 10.28

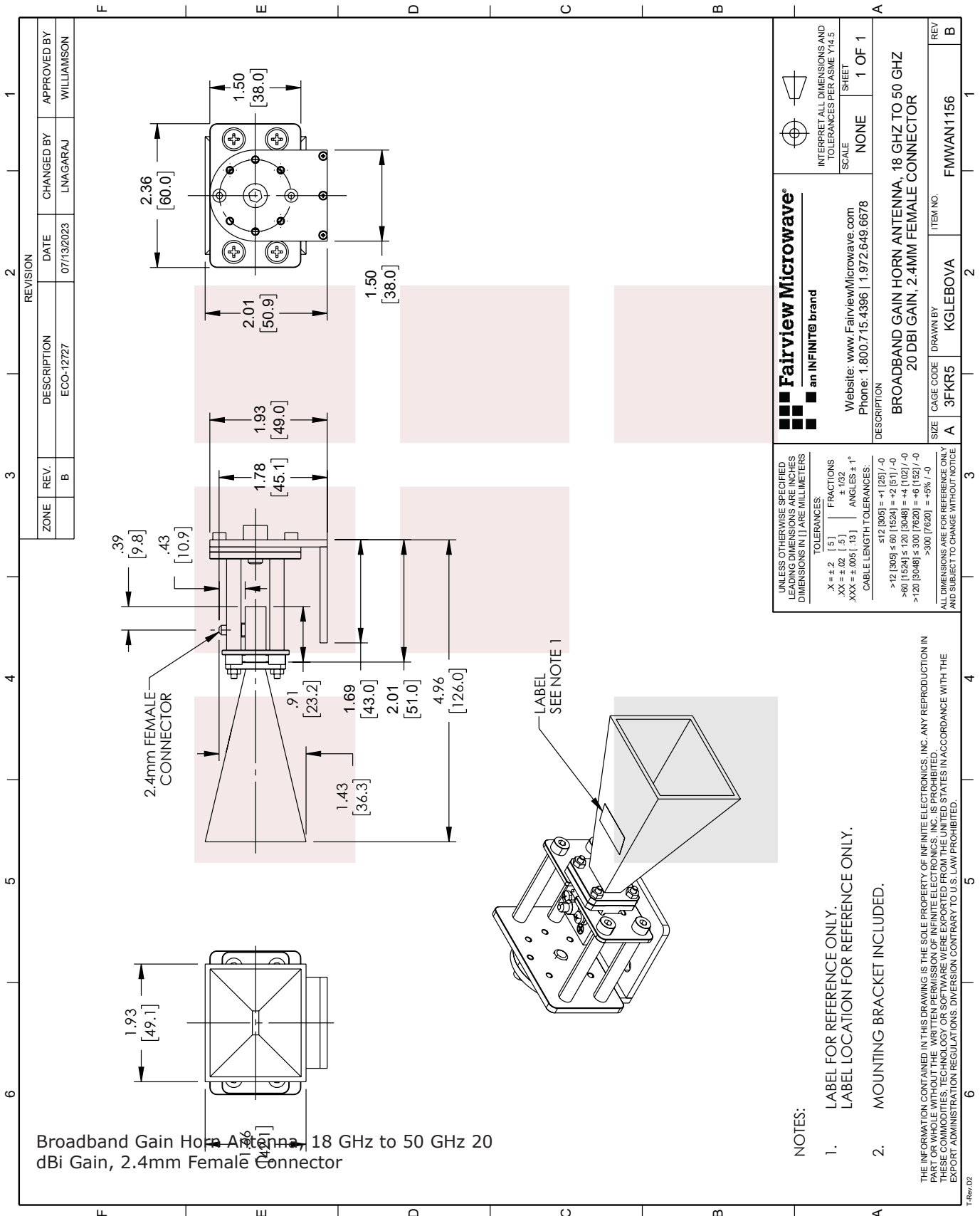
H plane: 9.53

Broadband Gain Horn Antenna, 18 GHz to 50 GHz 20 dBi Gain, 2.4mm Female 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: [Broadband Gain Horn Antenna, 18 GHz to 50 GHz 20 dBi Gain, 2.4mm Female Connector FMWAN1156](https://www.fairviewmicrowave.com/waveguide-horn-antenna-flange-20dbi-50-ghz-fmwan1156-p.aspx)

URL: <https://www.fairviewmicrowave.com/waveguide-horn-antenna-flange-20dbi-50-ghz-fmwan1156-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	B	ECO-12727	07/13/2023	LNAGARAJ	WILLIAMSON

REVISION	1	2	3	4	5	6
DESCRIPTION						
DATE						
CHANGED BY						
APPROVED BY						

<p>Fairview Microwave an INFINITE brand</p> <p>Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SHEET</p> <p>SCALE NONE</p> <p>SHEET 1 OF 1</p>	
<p>DESCRIPTION BROADBAND GAIN HORN ANTENNA, 18 GHZ TO 50 GHZ 20 DBI GAIN, 2.4MM FEMALE CONNECTOR</p>			
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	KGLEBOVA	FMWAN1156

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

TOLERANCES:

.X ± .2	[5]	FRACTIONS
.XX ± .02	[.5]	± 1/32
.XXX ± .005	[.13]	ANGLES ± 1°

CABLE LENGTH TOLERANCES:

≤ 12 [305]	± .01 [25]	/ -0
> 12 [305]	± .02 [51]	/ -0
> 60 [1524]	± .04 [102]	/ -0
> 120 [3048]	± .08 [203]	/ -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE

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