

Broadband Horn Antenna, Dual Polarized 23 GHz to 43 GHz 20 dBi Gain, 2.92mm Female Connector

The FMWAN1169 dual polarized broadband horn antenna (also known as a quad ridge horn antenna) from Fairview Microwave is part of our comprehensive selection of broadband antennas. This conical quad-ridge waveguide horn features dual 2.92mm Female coaxial connector and operates from 23 GHz to 43 GHz.

Our FMWAN1169 dual polarized broadband horn antenna has a nominal gain of 20 dBi with a typical input VSWR of 1.3:1. Fairview Microwave's broadband horns are available with gain values from 6 to 21 dBi with varying frequency ranges to suit the application needs.

Quad ridge horn antennas, such as the FMWAN1169 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 broadband antennas are part of over 40,000 RF, microwave, and millimeter wave components from Fairview Microwave available worldwide and ship same day.

Configuration

Pattern	Directional
Polarization	Dual Linear
Antenna Design Type	Broadband Gain Horn
RF Connector	2.92mm Female

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	23		43	GHz
Gain		20		dBi
VSWR		1.3:1		

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	23 to 27	27 to 31	31 to 35	35 to 39	39 to 43	GHz
Gain, Typ	18.5	19	20	21	21.5	dB

Mechanical Specifications

Size	
Length	2.362205 in 60 mm
Width	2.362205 in 60 mm
Height	7.795276 in 198 mm
Weight	0.495 lbs 224.53 g
Body Material and Plating	Aluminum
RF Connector	2.92mm Female

Environmental Specifications



Features:

- Ultra Broadband 23 GHz to 43 GHz
- Conical Quad-Ridge Waveguide
- Dual Polarized
- 20 dBi Nominal Gain
- Dual 2.92mm Female Coaxial Connector
- Mounting Bracket Included
- Powder Coated Aluminum

Applications:

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

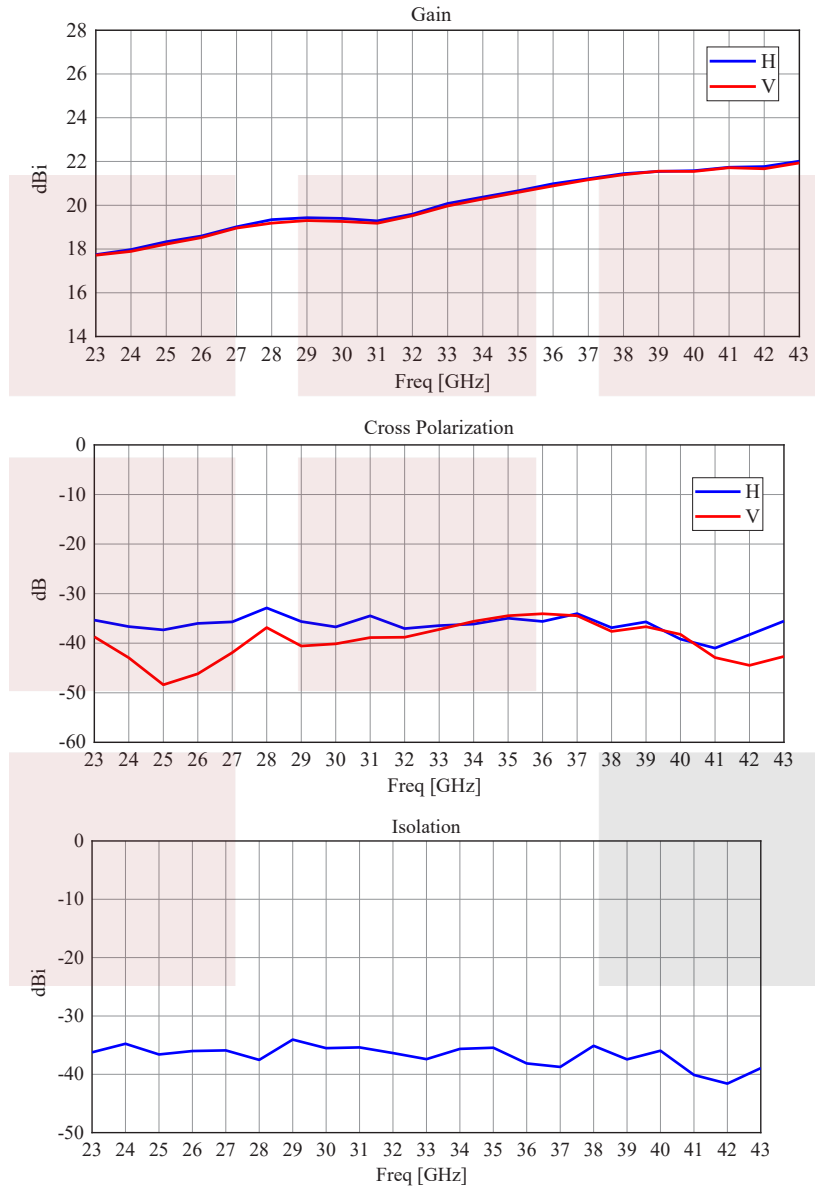
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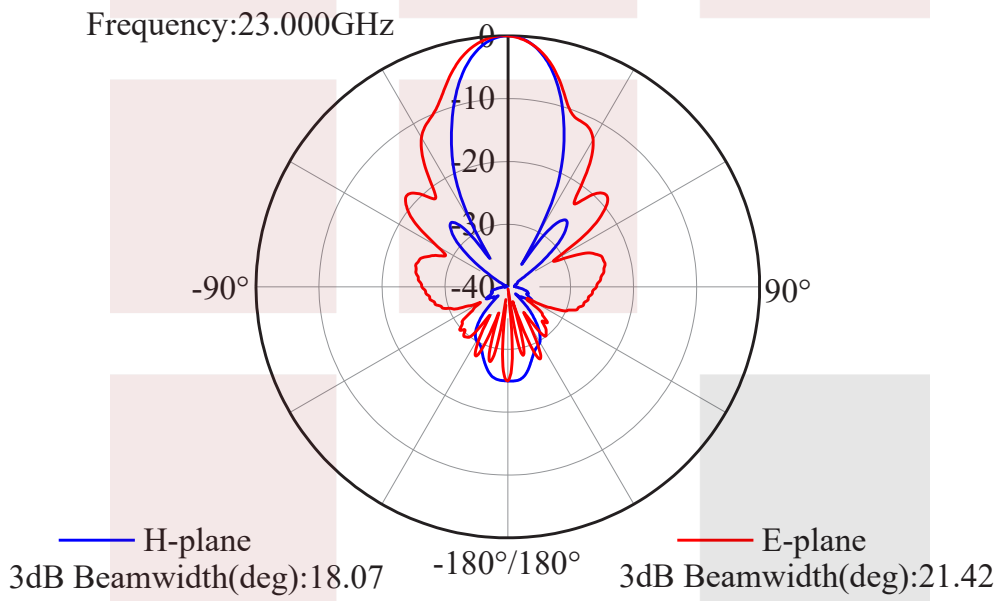
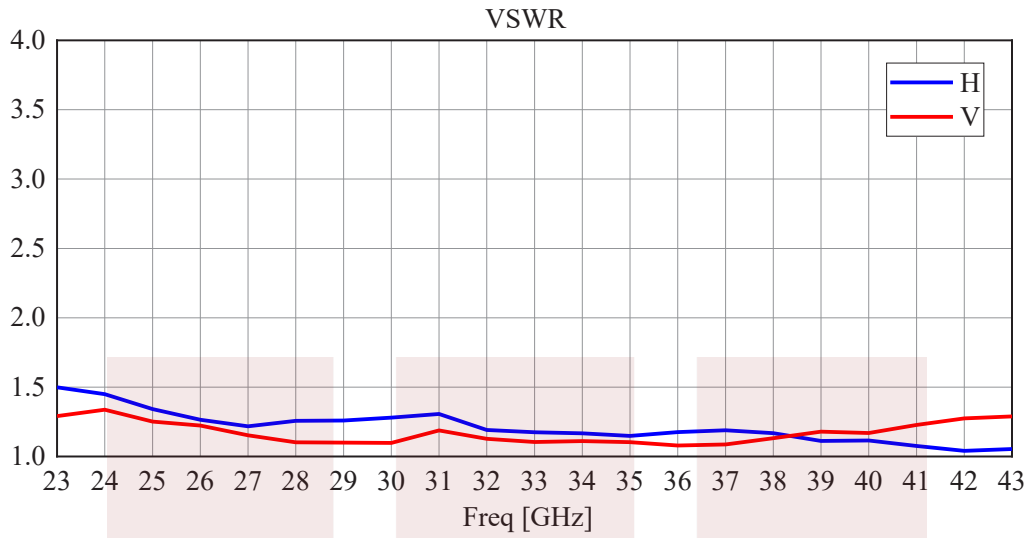
Compliance Certifications (see [product page](#) for current document)

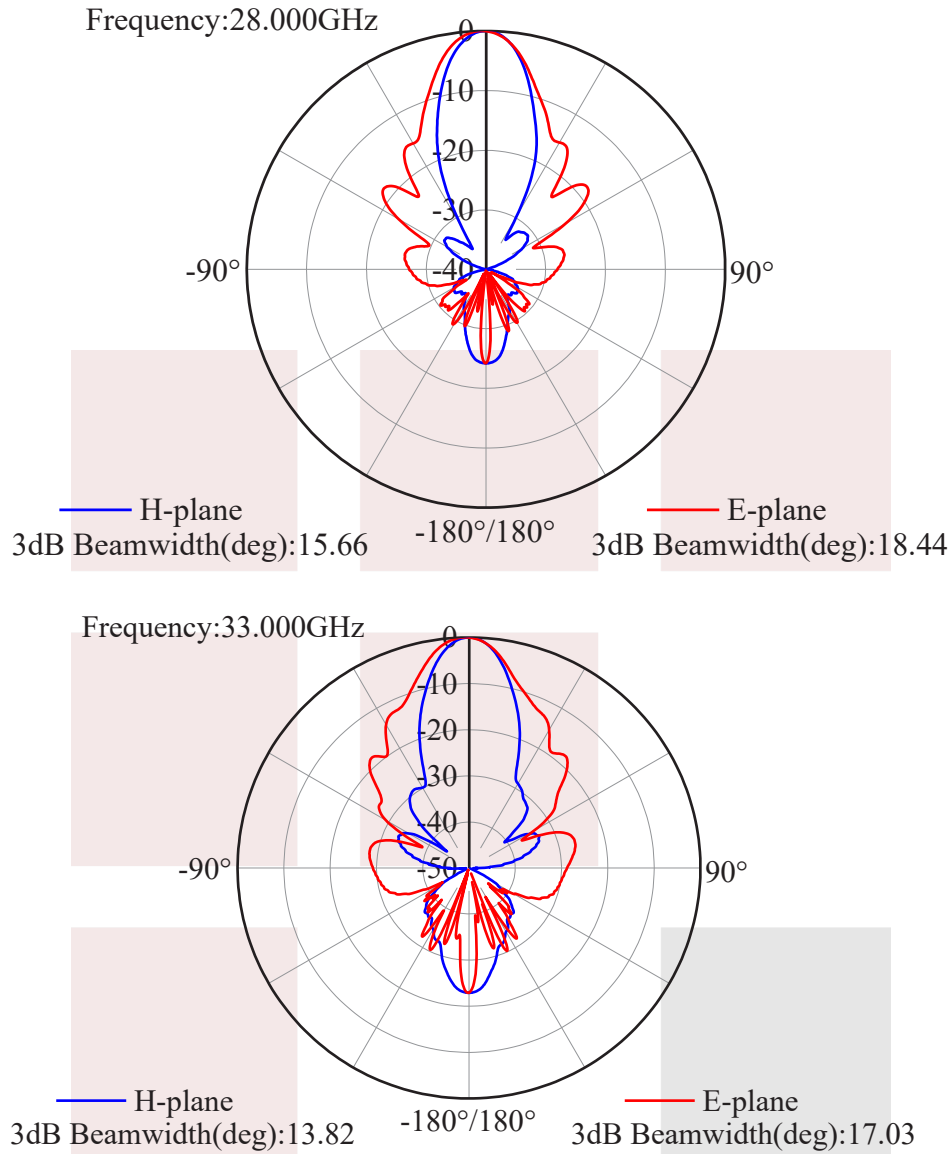
Plotted and Other Data

Notes:

Typical Performance Data





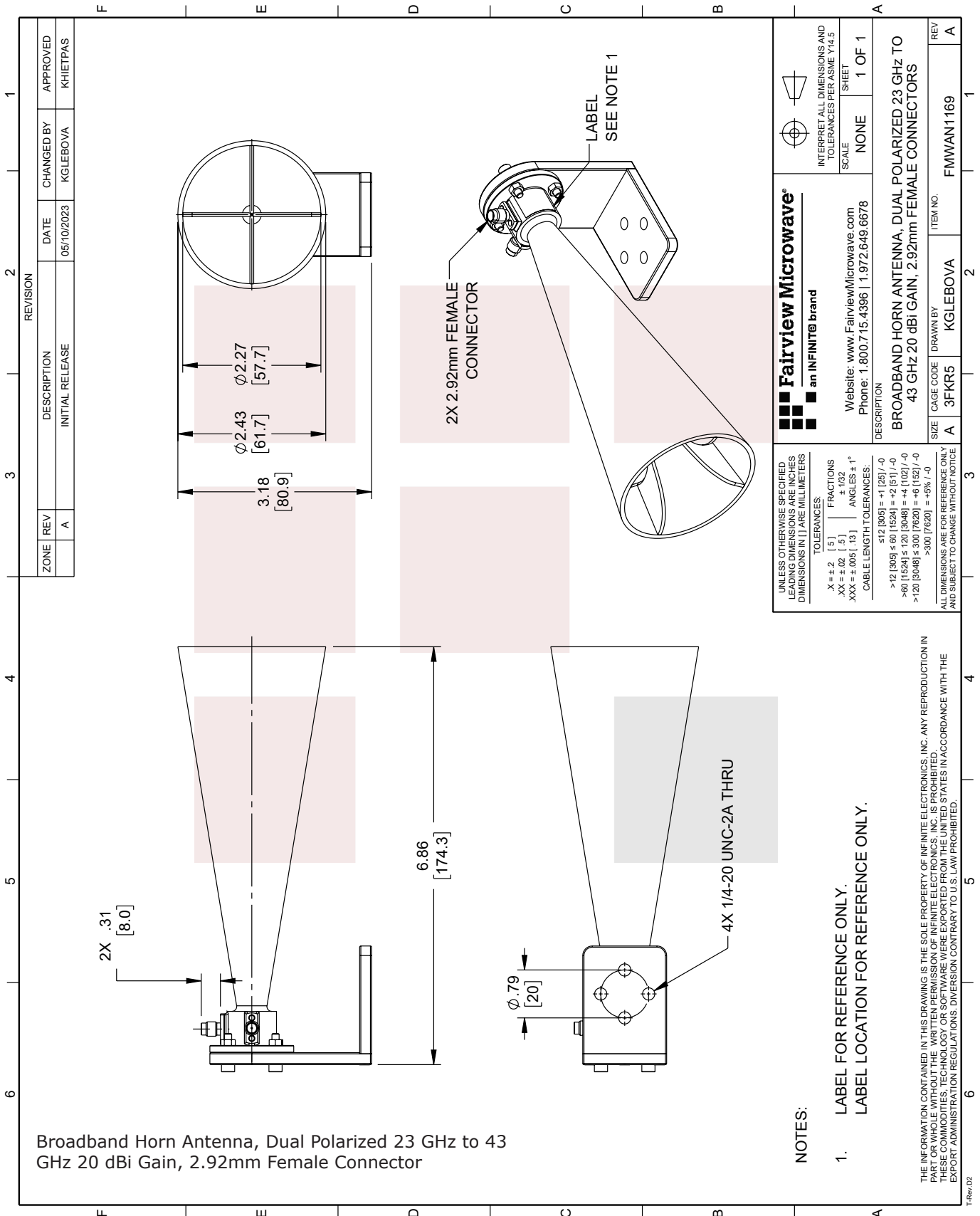


Broadband Horn Antenna, Dual Polarized 23 GHz to 43 GHz 20 dBi Gain, 2.92mm Female Connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Broadband Horn Antenna, Dual Polarized 23 GHz to 43 GHz 20 dBi Gain, 2.92mm Female Connector FMWAN1169](https://www.fairviewmicrowave.com/waveguide-horn-antenna-flange-20dbi-43-ghz-fmwan1169-p.aspx)

URL: <https://www.fairviewmicrowave.com/waveguide-horn-antenna-flange-20dbi-43-ghz-fmwan1169-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.



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NOTES:

1. LABEL FOR REFERENCE ONLY.
LABEL LOCATION FOR REFERENCE ONLY.

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ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	05/10/2023	KGLEBOVA	KHIETPAS

REVISION	

<p>Fairview Microwave an INFINIT[®] 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</p>
	<p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>
<p>DESCRIPTION: BROADBAND HORN ANTENNA, DUAL POLARIZED 23 GHz TO 43 GHz 20 dBi Gain, 2.92mm FEMALE CONNECTORS</p>	
<p>SIZE: A</p> <p>CAGE CODE: 3FKR5</p> <p>DRAWN BY: KGLEBOVA</p> <p>ITEM NO.: FMWAN1169</p>	<p>REV: A</p>

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

TOLERANCES:
 .X = ± .2 [5]
 .XX = ± .02 [.5]
 .XXX = ± .005 [.13]

FRACTIONS:
 ± 1/32
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 ≤ 12 [305] = ± .01 [253] / -0
 > 12 [305] ≤ 60 [1524] = ± .02 [51] / -0
 > 60 [1524] ≤ 120 [3048] = ± .04 [102] / -0
 > 120 [3048] ≤ 300 [7620] = ± .06 [152] / -0
 > 300 [7620] = +.05% / -0

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