

## Broadband Horn Antenna, Dual Polarized 0.8 GHz to 3 GHz 7 dBi Gain, SMA Female Connector

The FMWAN1166 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 quad-ridge waveguide horn features dual SMA Female coaxial connector and operates from 0.8 GHz to 3 GHz.

Our FMWAN1166 open boundary dual polarized broadband horn antenna has a nominal gain of 7 dBi with a typical input VSWR of 1.5:1. 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 FMWAN1166 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	SMA Female

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	0.8		3	GHz
Gain		7		dBi
VSWR		1.5:1		

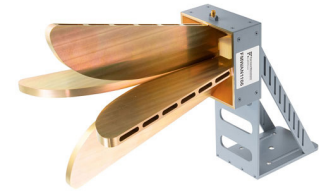
### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.8 to 1.2	1.2 to 1.6	1.6 to 2	2 to 2.5	2.5 to 3	GHz
Gain, Typ	5	7.5	9	10	11	dB

### Mechanical Specifications

<b>Size</b>	
Length	8.464567 in 215 mm
Width	8.464567 in 215 mm
Height	11.811024 in 300 mm
Weight	6.025 lbs 2.73 kg
Body Material and Plating	Aluminum
RF Connector	SMA Female

### Environmental Specifications



### Features:

- Ultra Broadband 0.8 GHz to 3 GHz
- Open Boundary Quad-Ridge Waveguide
- Dual Polarized
- 7 dBi Nominal Gain
- Dual SMA 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

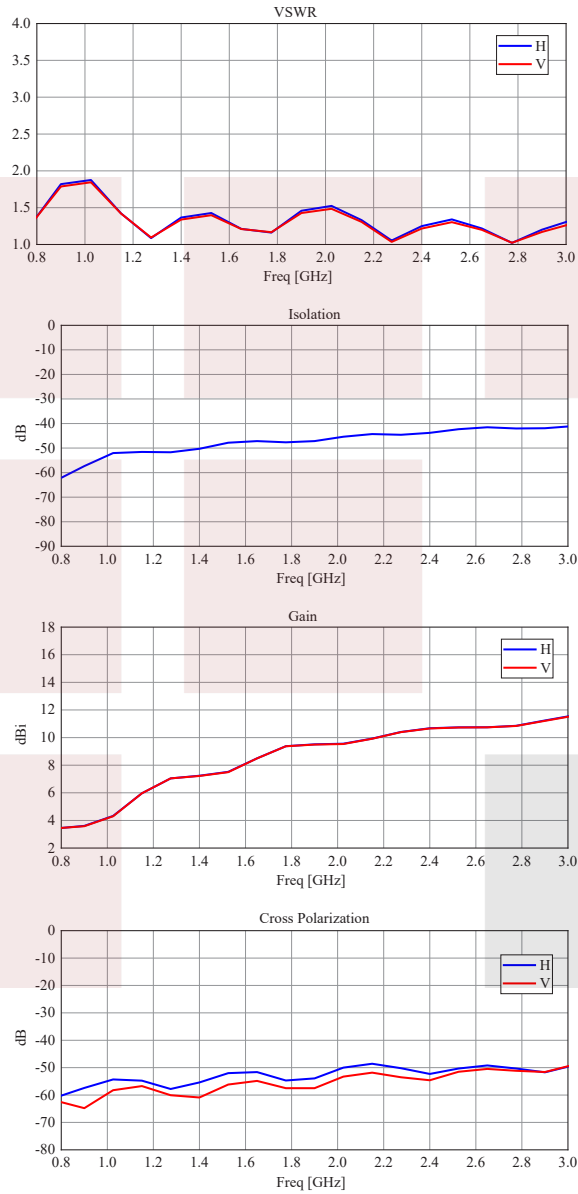
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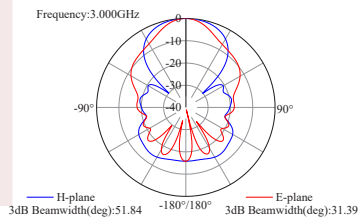
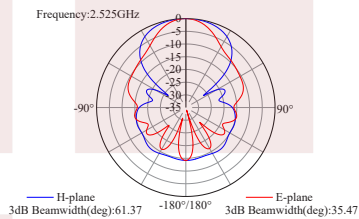
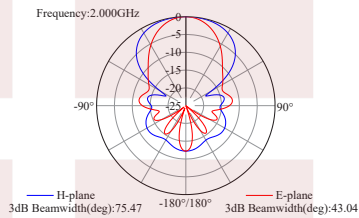
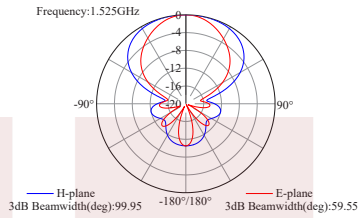
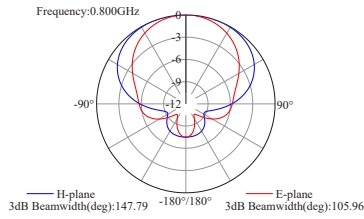
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

**Typical Performance Data**





Broadband Horn Antenna, Dual Polarized 0.8 GHz to 3 GHz 7 dBi Gain, SMA 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 0.8 GHz to 3 GHz 7 dBi Gain, SMA Female Connector FMWAN1166](#)

URL: <https://www.fairviewmicrowave.com/waveguide-horn-antenna-flange-7dbi-3-ghz-fmwan1166-p.aspx>

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