

Broadband Gain Horn Antenna, 4 GHz to 8 GHz 20 dBi Gain, SMA Female Connector

The FMWAN1157 broadband gain horn antenna (waveguide horn) from Fairview is part of our comprehensive selection of waveguide antennas. This broadband horn features an SMA Female coaxial connector and operates from 4 to 8 GHz.

Our FMWAN1157 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 FMWAN1157 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 SMA 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	SMA Female

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	4		8	GHz
Gain		20		dBi
VSWR		1.5:1		

Mechanical Specifications

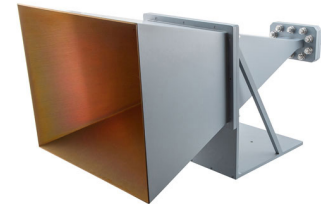
Size	
Length	23.8 in 604.52 mm
Width	13.5 in 342.9 mm
Height	10.7 in 271.78 mm
Weight	9.975 lbs 4.52 kg
Body Material and Plating	Aluminum, Powder Coat
RF Connector	SMA Female

Environmental Specifications

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

Plotted and Other Data

Notes:



Features:

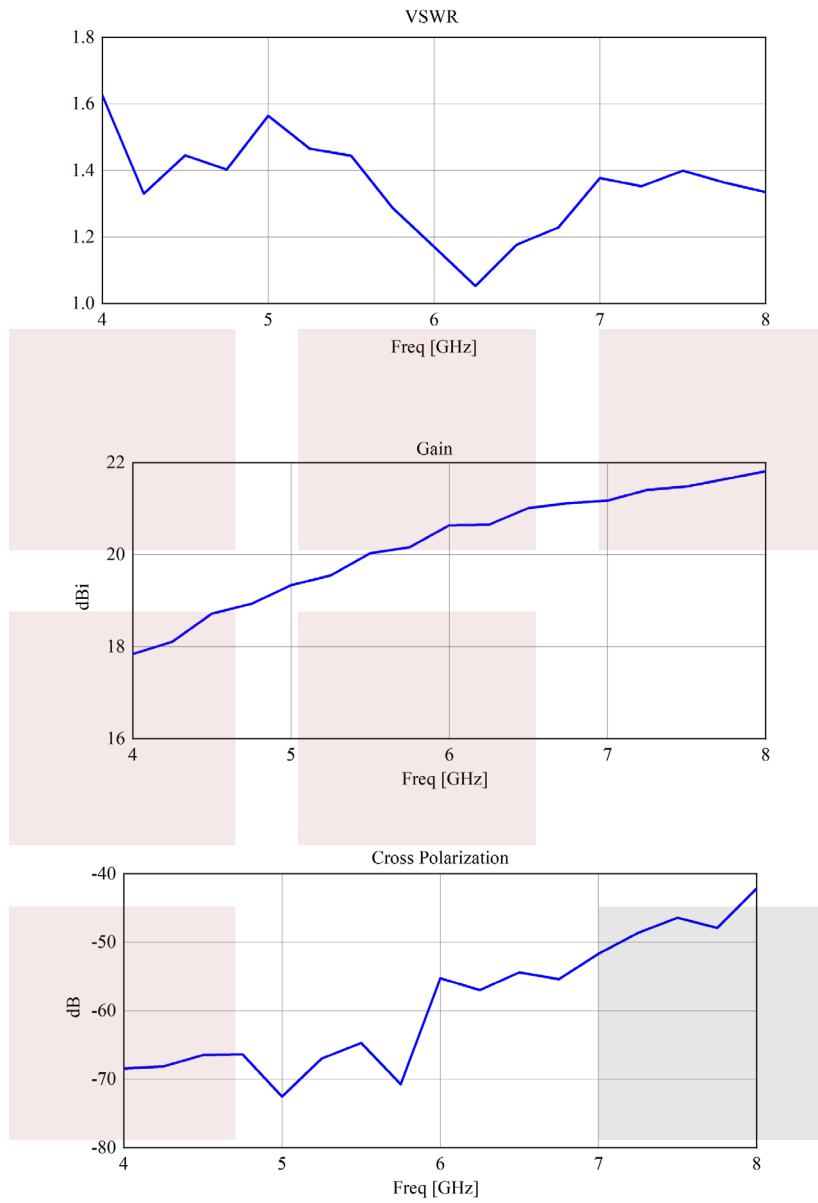
- Antenna Measurements
- Laboratory Use
- Microwave Testing
- Radome Testing
- EMC measurement
- Satellite Antenna Testing

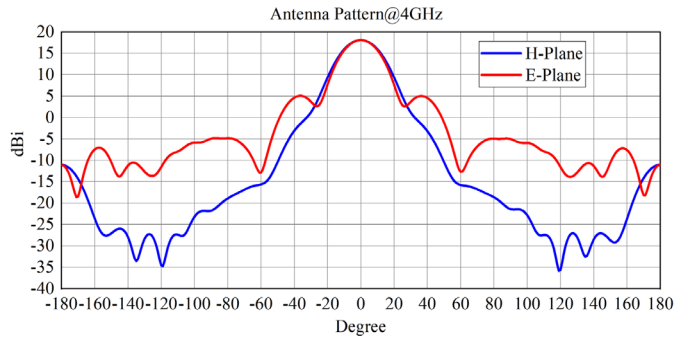
Applications:

- Broadband 4 GHz to 8 GHz
- Double-Ridge Waveguide
- Linearly Polarized
- 20 dBi Nominal Gain
- SMA Female Connector
- Mounting Bracket Included
- Powder Coated Aluminum

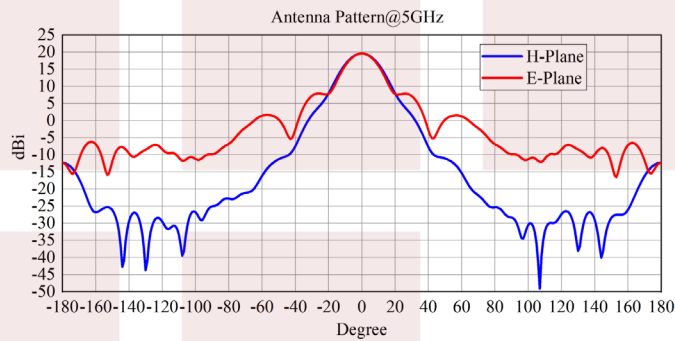
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Typical Performance Data

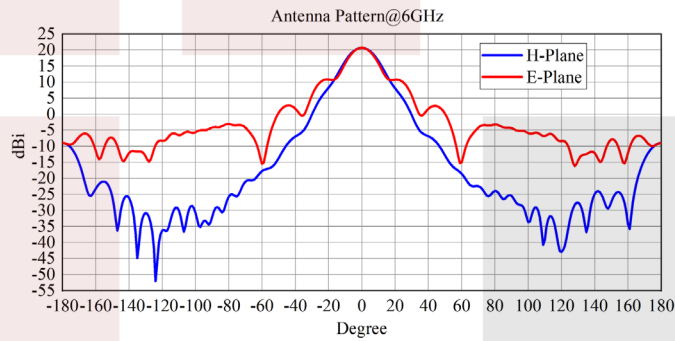




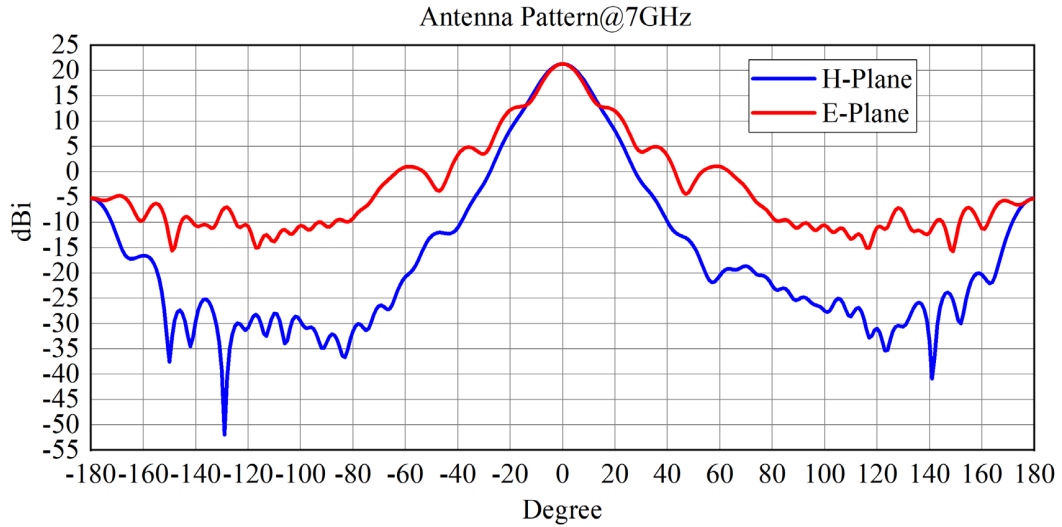
3dB beamwidth (°): E plane: 16.64 H plane: 18.5



3dB beamwidth (°): E plane: 13.8 H plane: 15.2

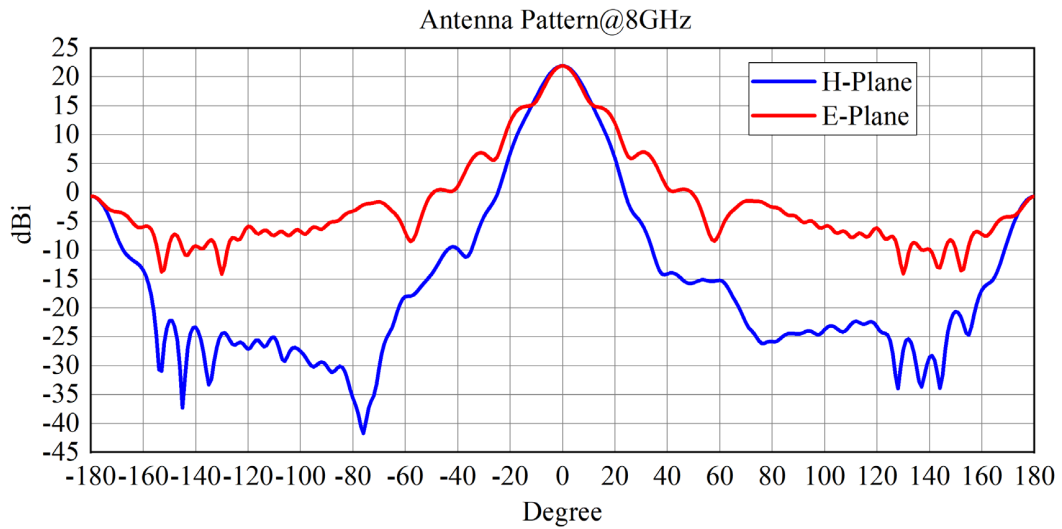


3dB beamwidth (°): E plane: 11.68 H plane: 13.24



3dB beamwidth (°): E plane: 10.18

H plane: 11.58



3dB beamwidth (°): E plane 9.45

H plane: 10.37

Broadband Gain Horn Antenna, 4 GHz to 8 GHz 20 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 Gain Horn Antenna, 4 GHz to 8 GHz 20 dBi Gain, SMA Female Connector FMWAN1157](#)

URL: <https://www.fairviewmicrowave.com/waveguide-horn-antenna-flange-20dbi-8-ghz-fmwan1157-p.aspx>

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