

Omni-directional Waveguide Antenna, WR-12, 75 GHz to 79 GHz, UG-387/U Round Cover Flange, 2 dBi Nominal Gain

Waveguide omni-directional 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 across a broad bandwidth. Fairview Microwave's FMWAN1088 WR-12 waveguide omni-directional antenna operating from 75 GHz to 79 GHz with a nominal 2.0 dBi gain is part of our full line of RF components available for same-day shipping. This Fairview Microwave circular horn antenna has a precision tolerance UG-387/U round cover flange. The FMWAN1088 WR-12 waveguide omni-directional antenna offers low gain variation across its operating frequency range.

Configuration

Design	WR-12 Omni-directional
Pattern	Omni Directional
Polarization	Linear

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	75		79	GHz
Nominal Gain		2		dBi
Horizontal 3dB Beam Width		360		Deg
Vertical 3dB Beam Width		45		Deg
VSWR		1.9:1		

Mechanical Specifications

Size	
Length	2.04 in [51.82 mm]
Width/Diameter	1.24 in [31.5 mm]
Height	1.24 in [31.5 mm]
Weight	0.135 lbs [61.23 g]

Waveguide Interface

Waveguide Size	WR-12
Flange Type	Round Cover
Flange Designation	UG-387/U
Body Material and Plating	Aluminum, Gold



Features:

- Rectangular Waveguide Interface
- 75 GHz to 79 GHz frequency range
- 2.0 dBi Nominal Gain
- UG-387/U Round Cover Flange

Applications:

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

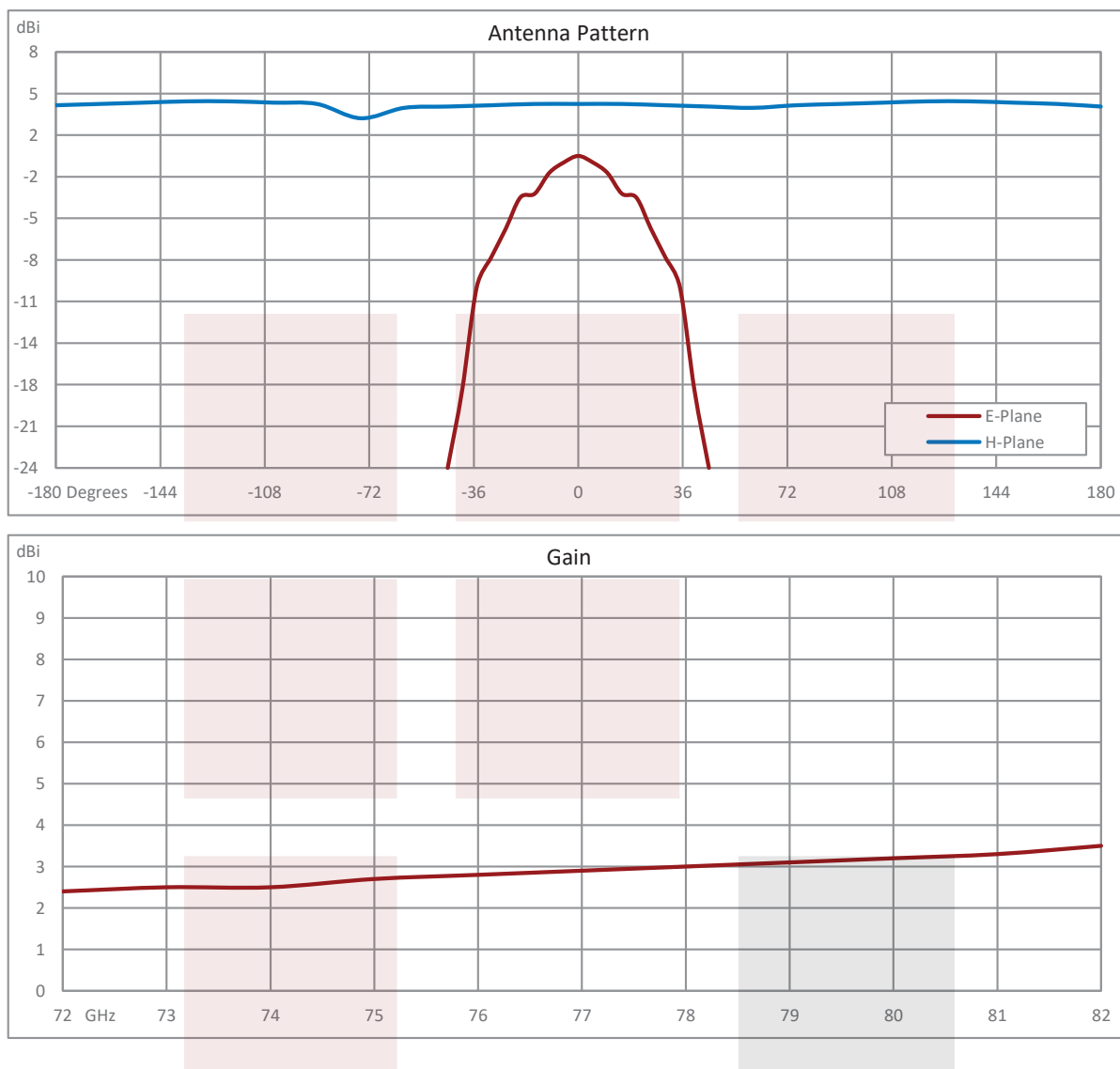
Compliance Certifications (see [product page](#) for current document)

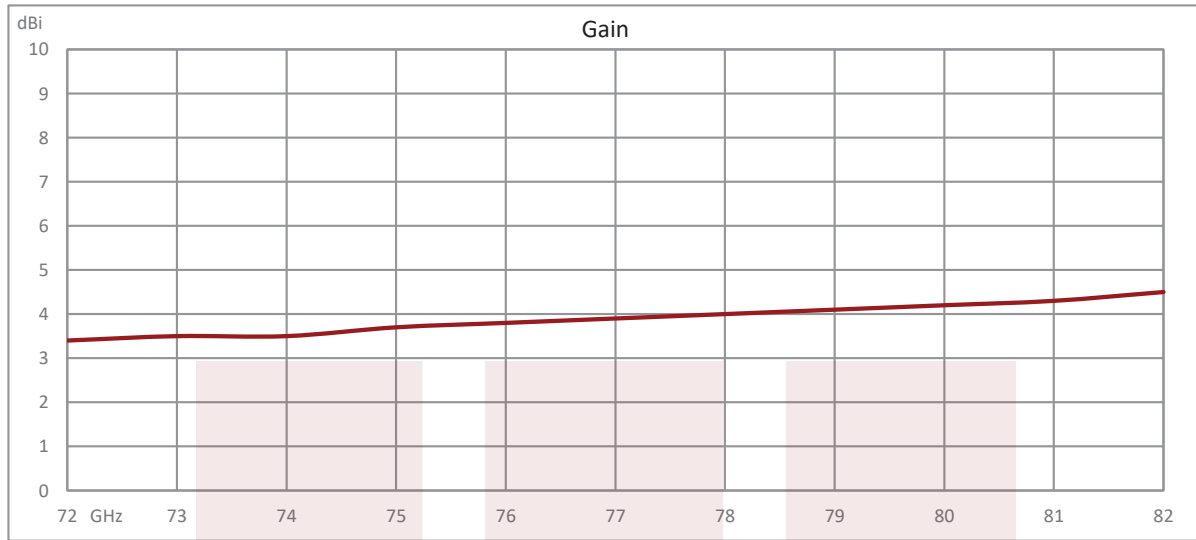
Plotted and Other Data

Notes:

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Typical Performance Data



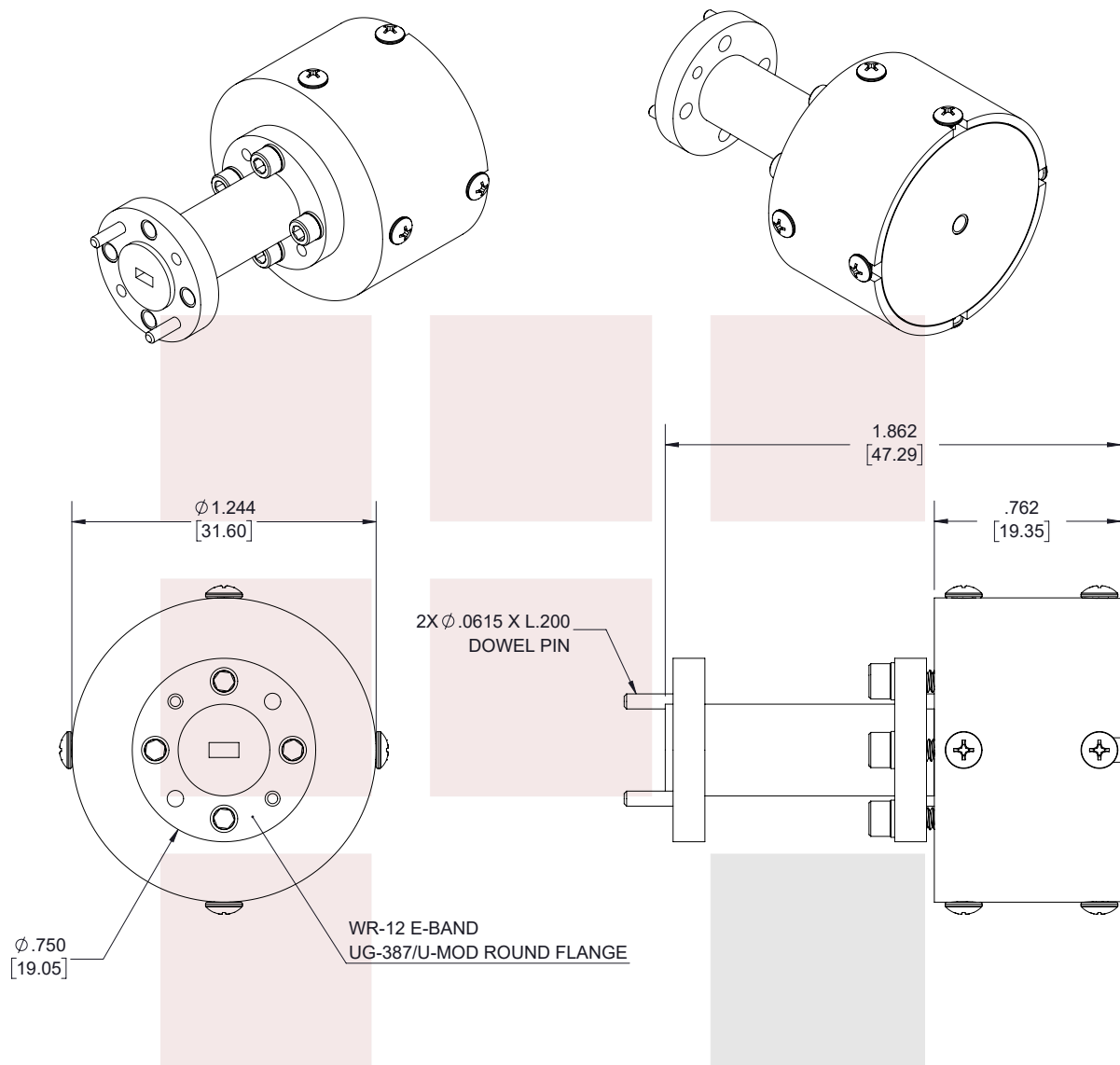


Omni-directional Waveguide Antenna, WR-12, 75 GHz to 79 GHz, UG-387/U Round Cover Flange, 2 dBi Nominal Gain from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Omni-directional Waveguide Antenna, WR-12, 75 GHz to 79 GHz, UG-387/U Round Cover Flange, 2 dBi Nominal Gain FMWAN1088](#)

URL: <https://www.fairviewmicrowave.com/wr-12-waveguide-standard-gain-horn-2-dbi-ug-387-fmwan1088-p.aspx>

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STANDARD TOLERANCES

.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

Fairview Microwave RF COMPONENTS ON DEMAND. <i>Done!</i>		NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].				
TITLE Omni-directional Waveguide Antenna, WR-12, 75 GHz to 79 GHz, UG-387/U Round Cover Flange, 2 dBi Nominal Gain	DWG NO FMWAN1088		CAGE CODE 3FKR5			
	CAD FILE 02/22/19	SHEET 1 OF 1	SCALE N/A	SIZE A	7361	