

## Standard Gain Horn Waveguide Antenna, WR-8, 90 GHz to 140 GHz, UG-387/U-Mod Round Cover Flange, 15 dBi Nominal Gain

Waveguide standard gain horn 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 FMWAN1022 WR-8 waveguide standard gain horn antenna operating from 90 GHz to 140 GHz with a nominal 15 dBi gain is part of our full line of RF components available for same-day shipping. This Fairview Microwave pyramidal horn antenna has a gold plated brass body and a precision tolerance UG-387/U-Mod round cover flange. The FMWAN1022 WR-8 waveguide standard gain horn antenna offers low gain variation across its operating frequency range.

### Configuration

Design	WR-8 Standard Gain Horn
Pattern	Directional
Polarization	Linear

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	90		140	GHz
Nominal Gain		15		dBi
Horizontal 3dB Beam Width		33		Deg
Vertical 3dB Beam Width		29		Deg
VSWR		1.15:1		

### Mechanical Specifications

<b>Size</b>	
Length	1.163 in [29.54 mm]
Width/Diameter	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	0.035 lbs [15.88 g]

### Waveguide Interface

Waveguide Size	WR-8
Flange Type	Round Cover
Flange Designation	UG-387/U-Mod
Body Material and Plating	Brass, Gold



### Features:

- Rectangular Waveguide Interface
- 90 GHz to 140 GHz
- 15 dBi Nominal Gain
- UG-387/U-Mod Round Cover Flange

### Applications:

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

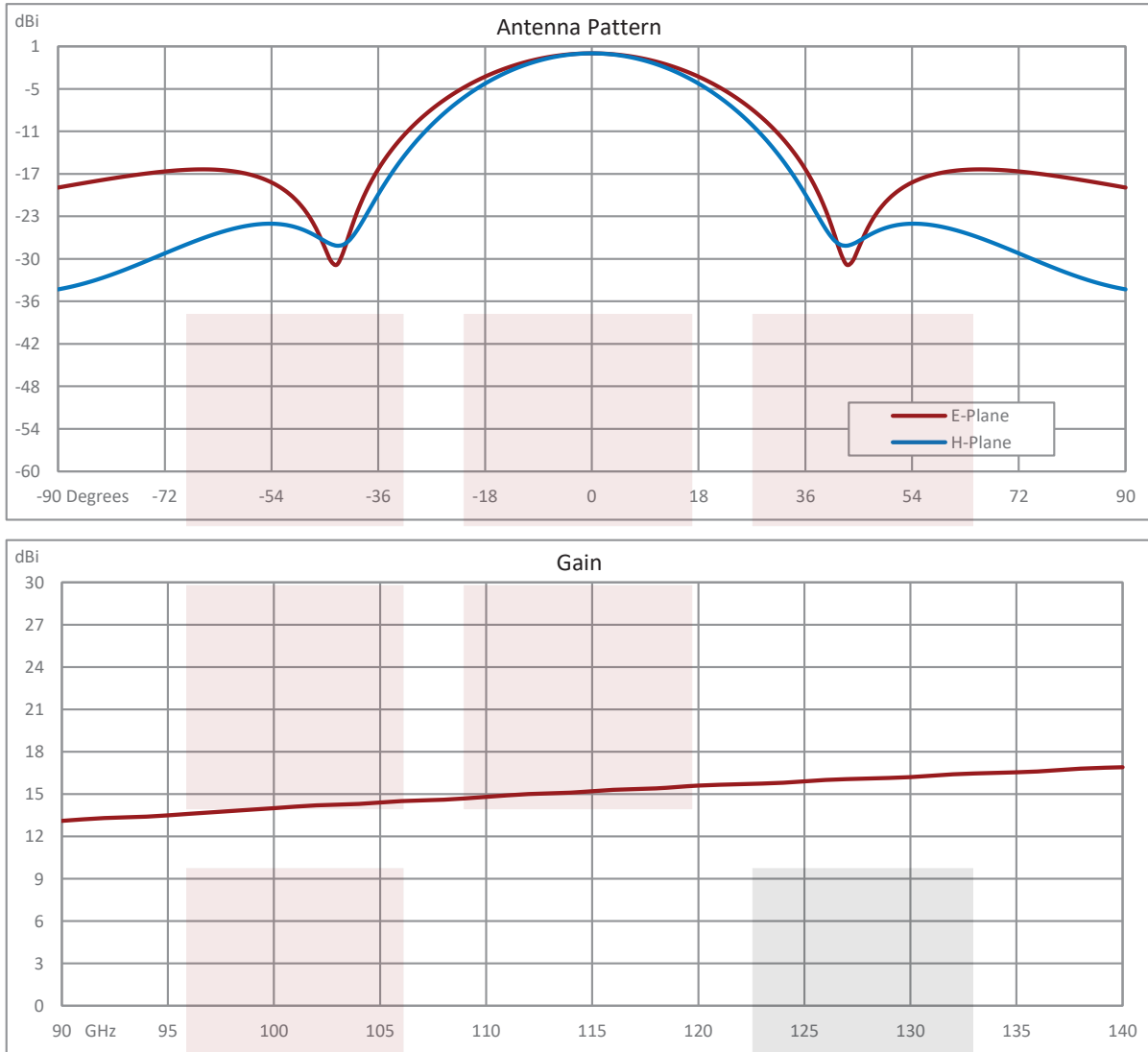
**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

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**Typical Performance Data**

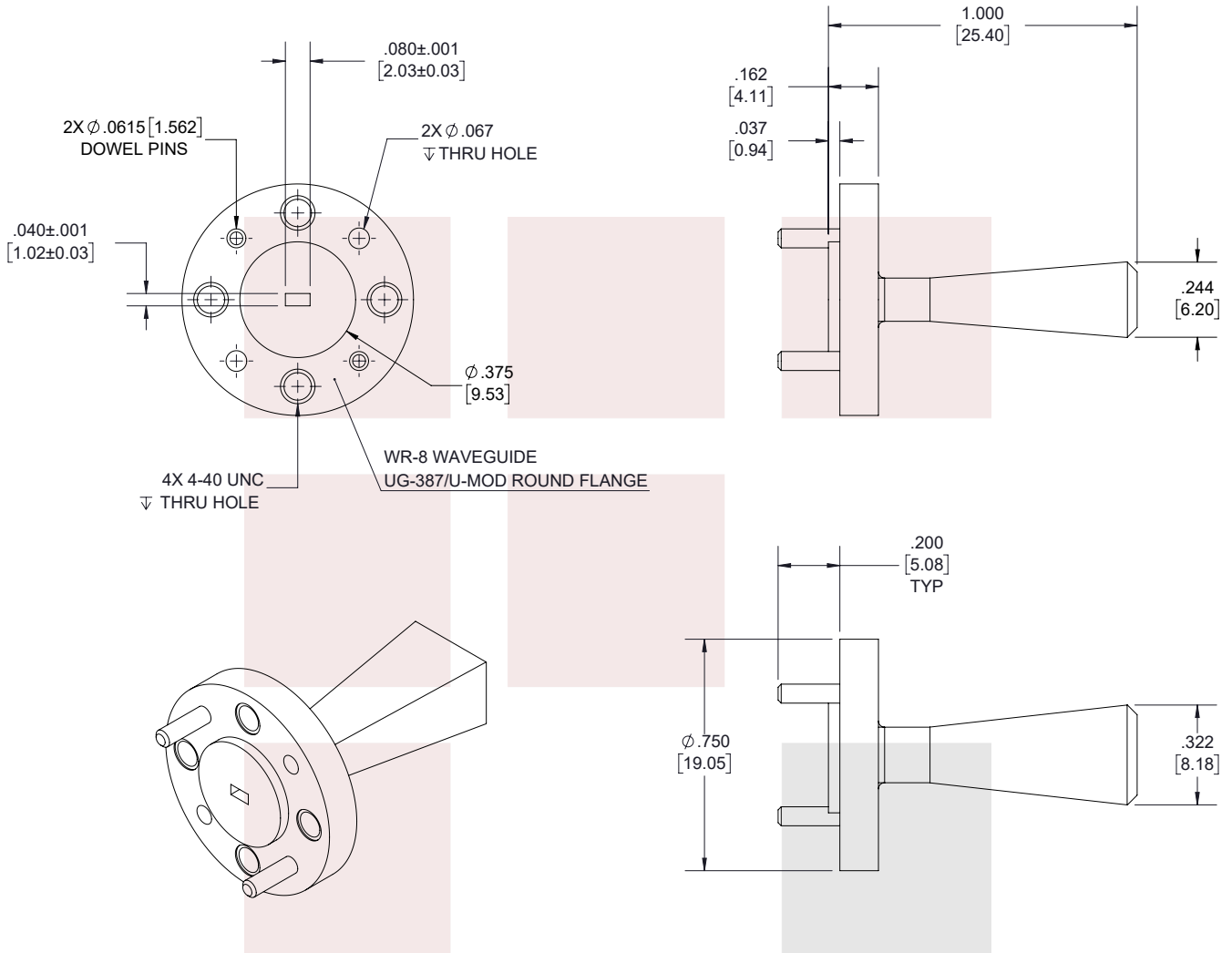


Standard Gain Horn Waveguide Antenna, WR-8, 90 GHz to 140 GHz, UG-387/U-Mod Round Cover Flange, 15 dBi Nominal Gain from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Standard Gain Horn Waveguide Antenna, WR-8, 90 GHz to 140 GHz, UG-387/U-Mod Round Cover Flange, 15 dBi Nominal Gain FMWAN1022](#)

URL: <https://www.fairviewmicrowave.com/wr-8-waveguide-standard-gain-horn-15-dbi-ug-387-mod-fmwan1022-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

		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 Standard Gain Horn Waveguide Antenna, WR-8, 90 GHz to 140 GHz, UG-387/U-Mod Round Cover Flange, 15 dBi Nominal Gain		DWG NO FMWAN1022	CAGE CODE 3FKR5
CAD FILE 02/22/19	SHEET 1 OF 1	SCALE N/A	SIZE A
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