

Standard Gain Horn Waveguide Antenna, WR-8, 90 GHz to 140 GHz, UG-387/U-Mod Round Cover Flange, 20 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 FMWAN1023 WR-8 waveguide standard gain horn antenna operating from 90 GHz to 140 GHz with a nominal 20 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 FMWAN1023 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		20		dBi
Gain	19		21.5	dBi
Horizontal 3dB Beam Width		18		Deg
Vertical 3dB Beam Width		16		Deg
VSWR		1.15:1		

Mechanical Specifications

Size	
Length	1.66 in [42.16 mm]
Width/Diameter	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	0.047 lbs [21.32 g]

Waveguide Interface

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

z

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

Plotted and Other Data

Notes:



Features:

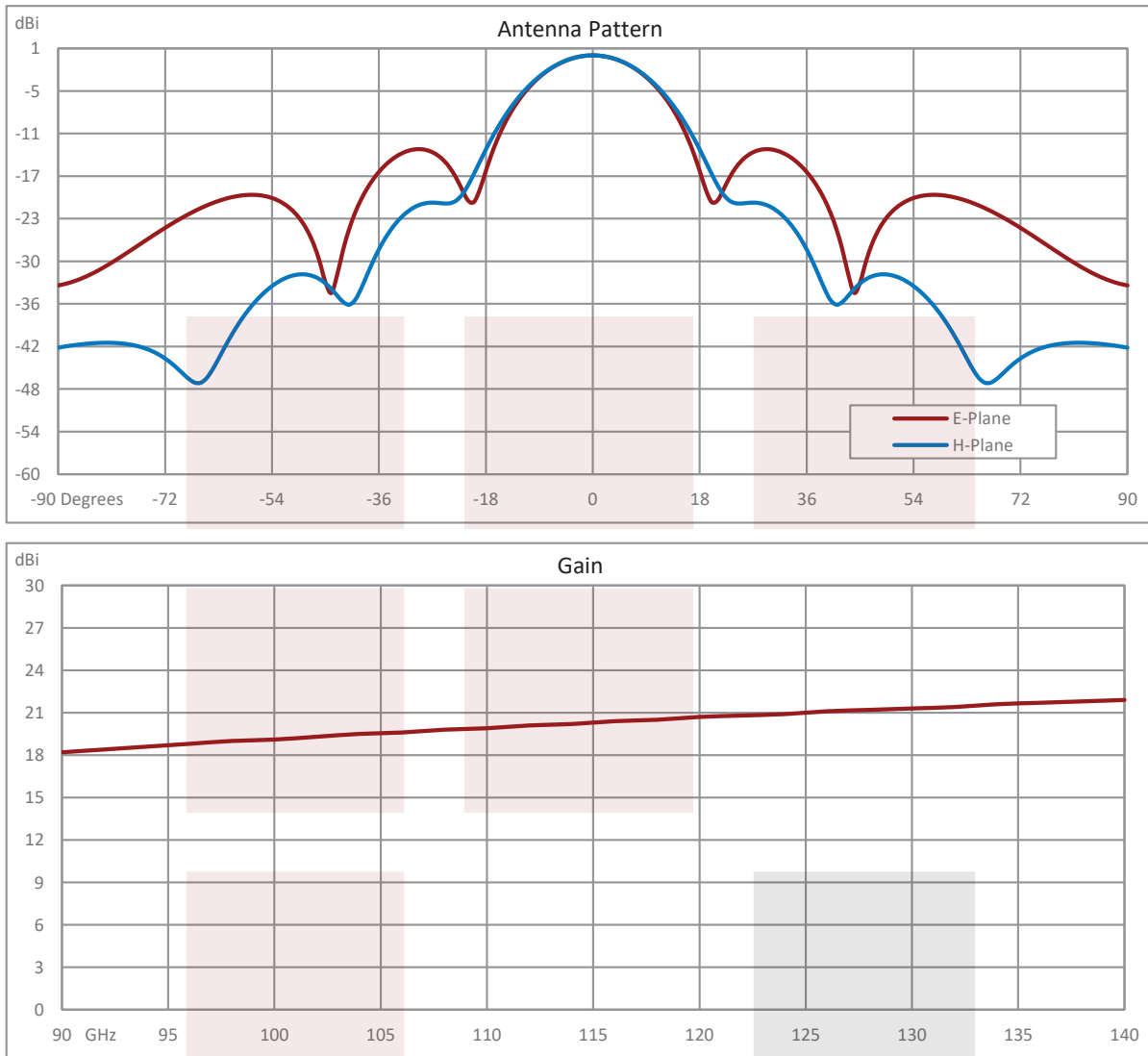
- Rectangular Waveguide Interface
- 90 GHz to 140 GHz
- 20 dBi Nominal Gain
- UG-387/U-Mod Round Cover Flange

Applications:

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

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Typical Performance Data

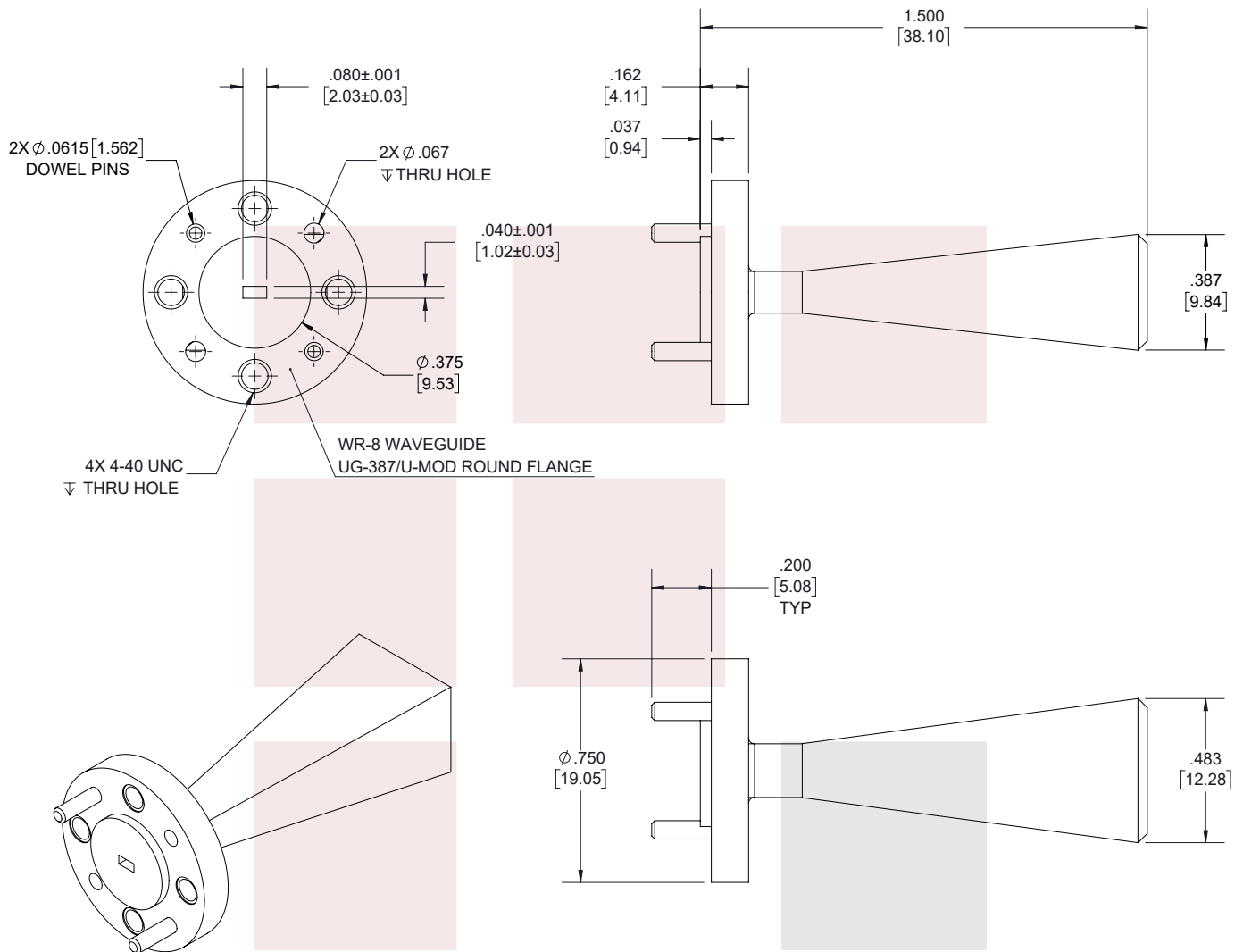


Standard Gain Horn Waveguide Antenna, WR-8, 90 GHz to 140 GHz, UG-387/U-Mod Round Cover Flange, 20 dBi Nominal Gain from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. 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, 20 dBi Nominal Gain FMWAN1023](#)


URL: <https://www.fairviewmicrowave.com/wr-8-waveguide-standard-gain-horn-20-dbi-ug-387-mod-fmwan1023-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].					
	DWG NO FMWAN1023			CAGE CODE 3FKR5		
TITLE Standard Gain Horn Waveguide Antenna, WR-8, 90 GHz to 140 GHz, UG-387/U-Mod Round Cover Flange, 20 dBi Nominal Gain		CAD FILE 02/22/19	SHEET 1 OF 1	SCALE N/A	SIZE A	7361