

**Conical Gain Horn Waveguide Antenna, WR-5,
140 GHz to 220 GHz, UG-387/U Round Cover Flange,
10 dBi Nominal Gain**

Waveguide conical 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 FMWAN1065 WR-5 waveguide conical gain horn antenna operating from 140 GHz to 220 GHz with a nominal 10 dBi gain is part of our full line of RF components available for same-day shipping. This Fairview Microwave circular horn antenna has a gold plated brass body and a precision tolerance UG-387/U round cover flange. The FMWAN1065 WR-5 waveguide conical gain horn antenna offers low gain variation across its operating frequency range.

Configuration

Design	WR-5 Conical Gain Horn
Pattern	Directional
Polarization	Linear

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	140		220	GHz
Nominal Gain		10		dBi
Horizontal 3dB Beam Width		58		Deg
Vertical 3dB Beam Width		53		Deg
VSWR		1.15:1		

Mechanical Specifications

Size	
Length	1.16 in [29.46 mm]
Width/Diameter	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	0.043 lbs [19.5 g]

Waveguide Interface

Waveguide Size	WR-5
Flange Type	Round Cover
Flange Designation	UG-387/U
Body Material and Plating	Brass, Gold



Features:

- Circular Waveguide Interface
- 140 GHz to 220 GHz
- 10 dBi Nominal Gain
- UG-387/U Round Cover Flange

Applications:

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

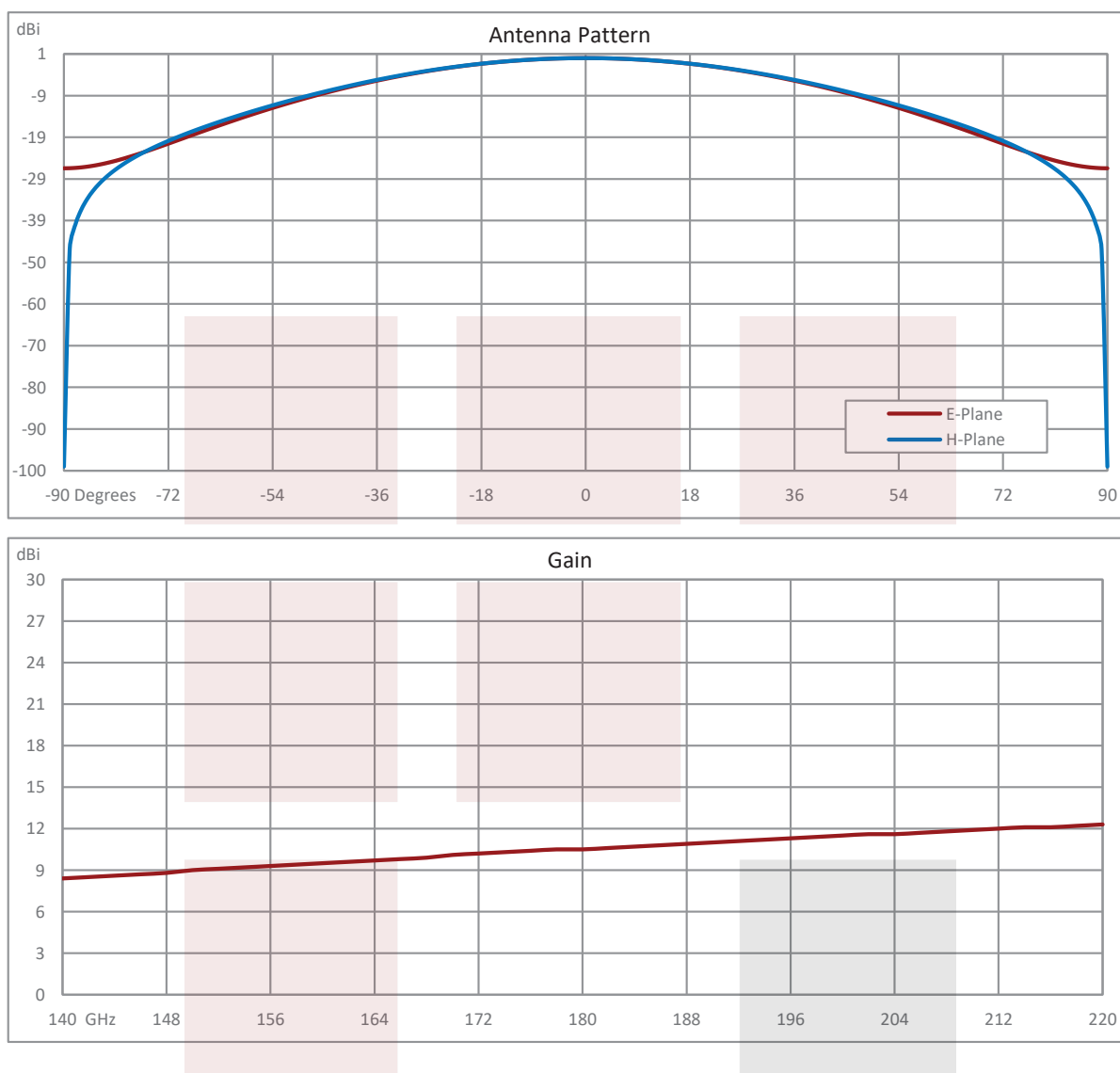
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Fairview Microwave
301 Leora Ln., Suite 100
Lewisville, TX 75056
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Typical Performance Data

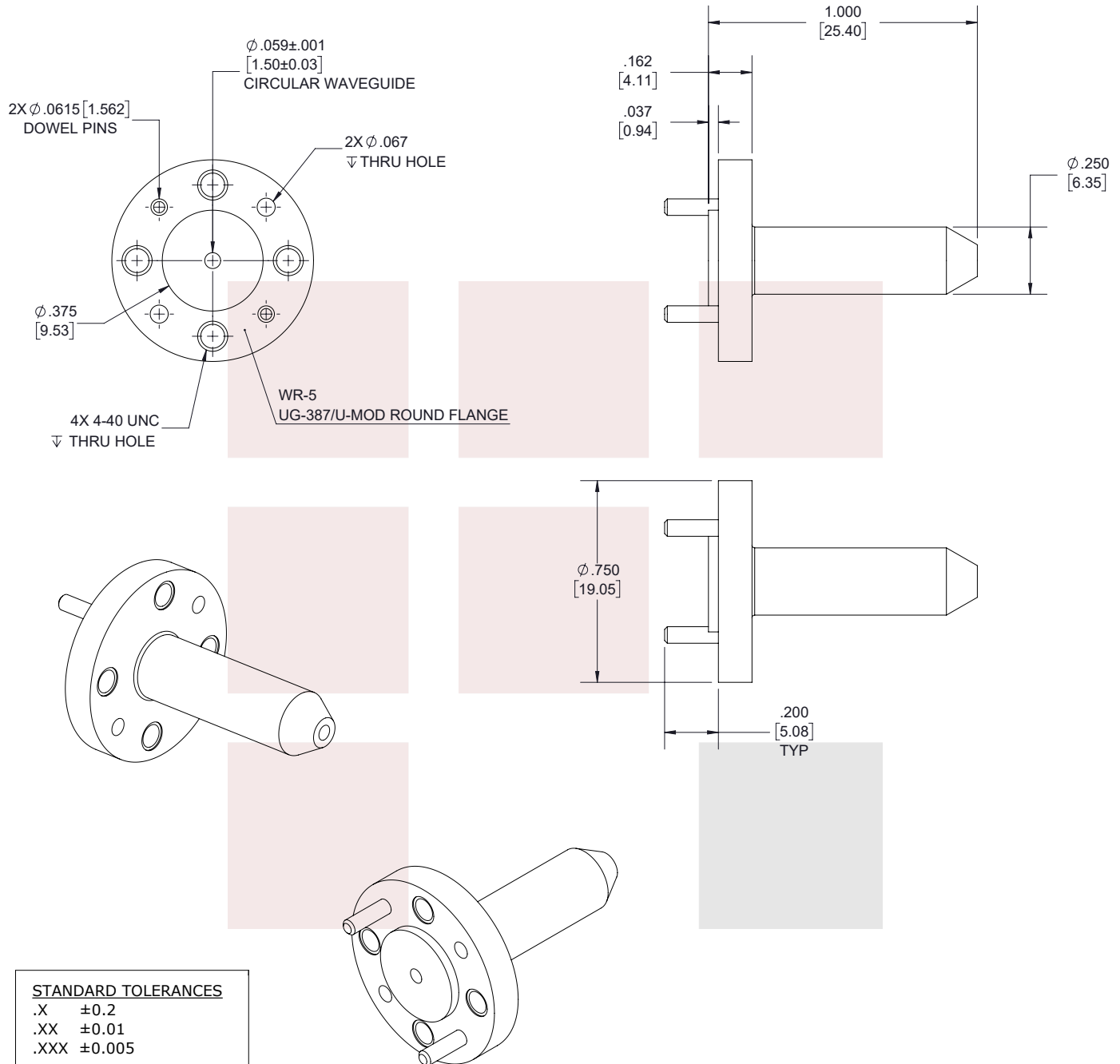


Conical Gain Horn Waveguide Antenna, WR-5, 140 GHz to 220 GHz, UG-387/U Round Cover Flange, 10 dBi Nominal Gain from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Conical Gain Horn Waveguide Antenna, WR-5, 140 GHz to 220 GHz, UG-387/U Round Cover Flange, 10 dBi Nominal Gain FMWAN1065](https://www.fairviewmicrowave.com/wr-5-waveguide-standard-gain-horn-10-dbi-ug-387-fmwan1065-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		DWG NO		CAGE CODE			
Conical Gain Horn Waveguide Antenna, WR-5, 140 GHz to 220 GHz, UG-387/U Round Cover Flange, 10 dBi Nominal Gain		FMWAN1065		3FKR5			
		CAD FILE	02/22/19	SHEET	1 OF 1	SCALE	N/A
				SIZE	A		7361