

**Standard Gain Horn Waveguide Antenna, WR-5,
140 GHz to 220 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 FMWAN1031 WR-5 waveguide standard gain horn antenna operating from 140 GHz to 220 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 FMWAN1031 WR-5 waveguide standard gain horn antenna offers low gain variation across its operating frequency range.

Configuration

Design	WR-5 Standard Gain Horn
Pattern	Directional
Polarization	Linear

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	140		220	GHz
Nominal Gain		20		dBi
Horizontal 3dB Beam Width		13		Deg
Vertical 3dB Beam Width		13		Deg
VSWR		1.15:1		

Mechanical Specifications

Size	
Length	1.41 in [35.81 mm]
Width/Diameter	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	0.039 lbs [17.69 g]

Waveguide Interface

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



Features:

- Rectangular Waveguide Interface
- 140 GHz to 220 GHz
- 20 dBi Nominal Gain
- UG-387/U-Mod Round Cover Flange

Applications:

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

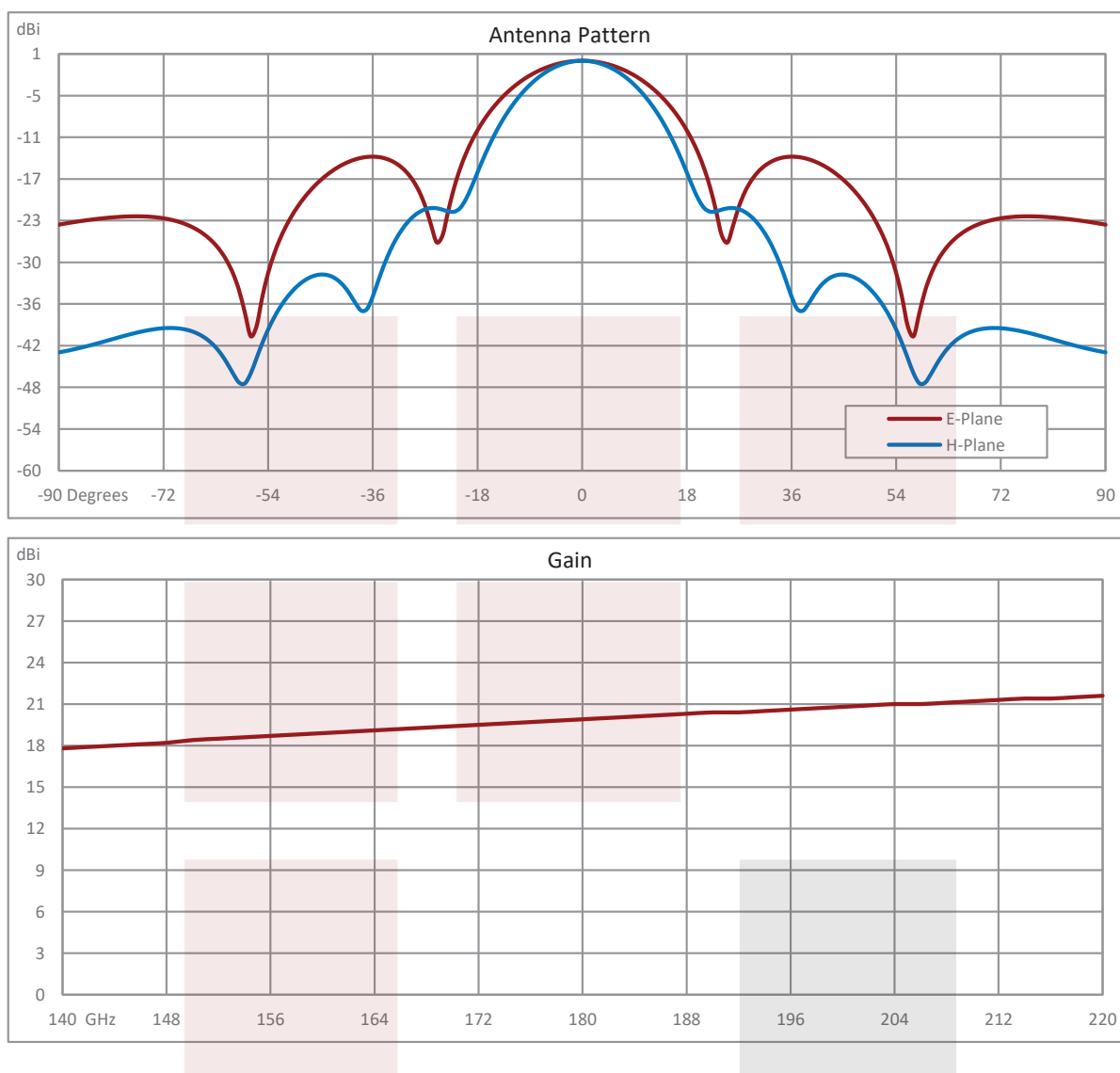
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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Typical Performance Data

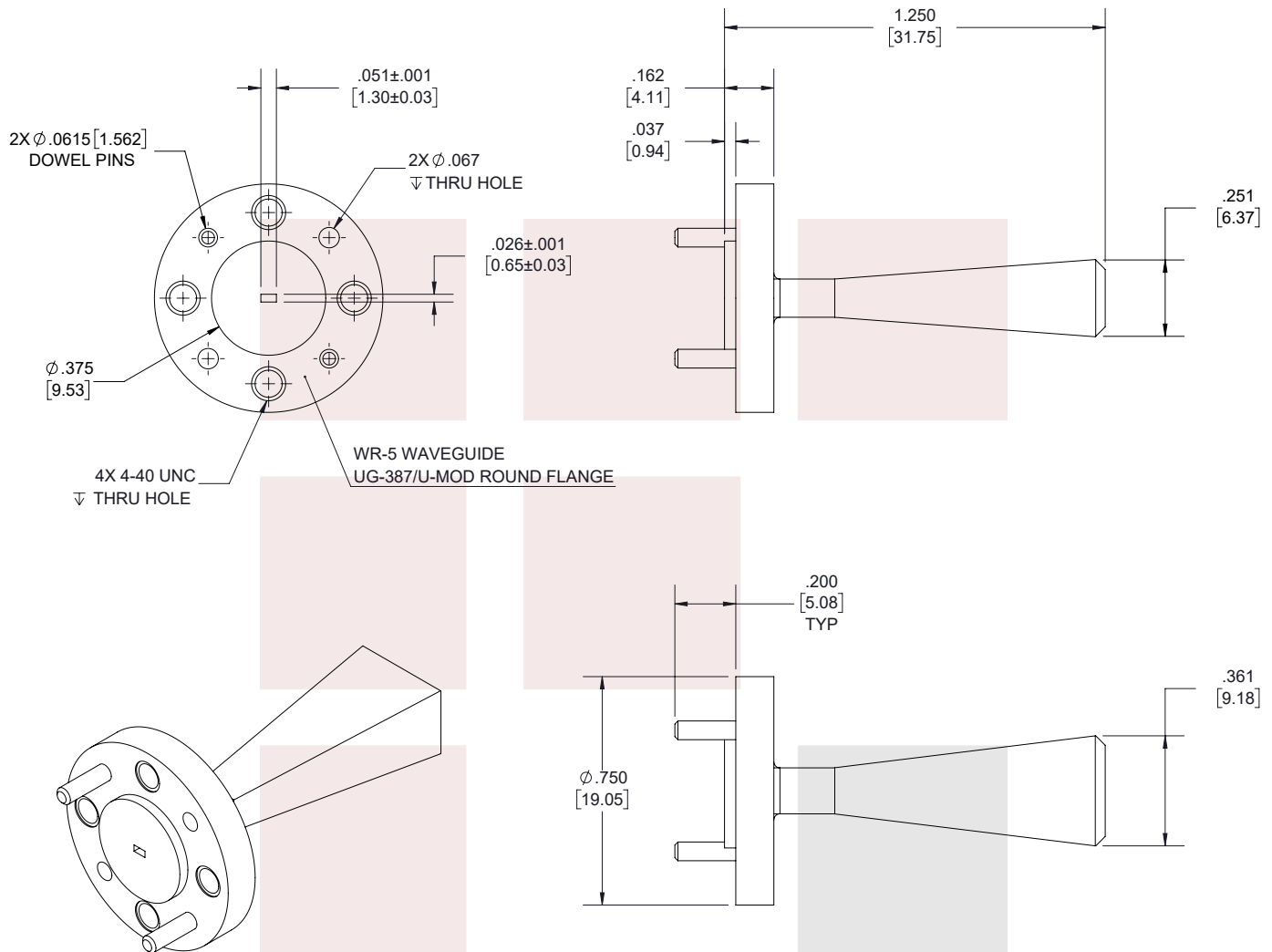


Standard Gain Horn Waveguide Antenna, WR-5, 140 GHz to 220 GHz, UG-387/U-Mod Round Cover Flange, 20 dBi Nominal Gain from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Standard Gain Horn Waveguide Antenna, WR-5, 140 GHz to 220 GHz, UG-387/U-Mod Round Cover Flange, 20 dBi Nominal Gain FMWAN1031](https://www.fairviewmicrowave.com/wr-5-waveguide-standard-gain-horn-20-dbi-ug-387-mod-fmwan1031-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

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DWG NO

FMWAN1031

CAGE CODE

3FKR5

CAD FILE

02/22/19

SHEET

1 OF 1

SCALE N/A

SIZE A

7361