

### Conical Gain Horn Waveguide Antenna, WR-10, 77 GHz to 87 GHz, UG-387/U Round Cover Flange, 20 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 FMWAN1055 WR-10 waveguide conical gain horn antenna operating from 77 GHz to 87 GHz with a nominal 20 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 FMWAN1055 WR-10 waveguide conical gain horn antenna offers low gain variation across its operating frequency range.

#### Configuration

Design	WR-10 Conical Gain Horn
Pattern	Directional
Polarization	Linear

#### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	77		87	GHz
Nominal Gain		20		dBi
Horizontal 3dB Beam Width		20		Deg
Vertical 3dB Beam Width		16		Deg
VSWR		1.15:1		

#### Mechanical Specifications

<b>Size</b>	
Length	2.16 in [54.86 mm]
Width/Diameter	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	0.075 lbs [34.02 g]

#### Waveguide Interface

Waveguide Size	WR-10
Flange Type	Round Cover
Flange Designation	UG-387/U
Body Material and Plating	Brass, Gold

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

#### Plotted and Other Data

Notes:



#### Features:

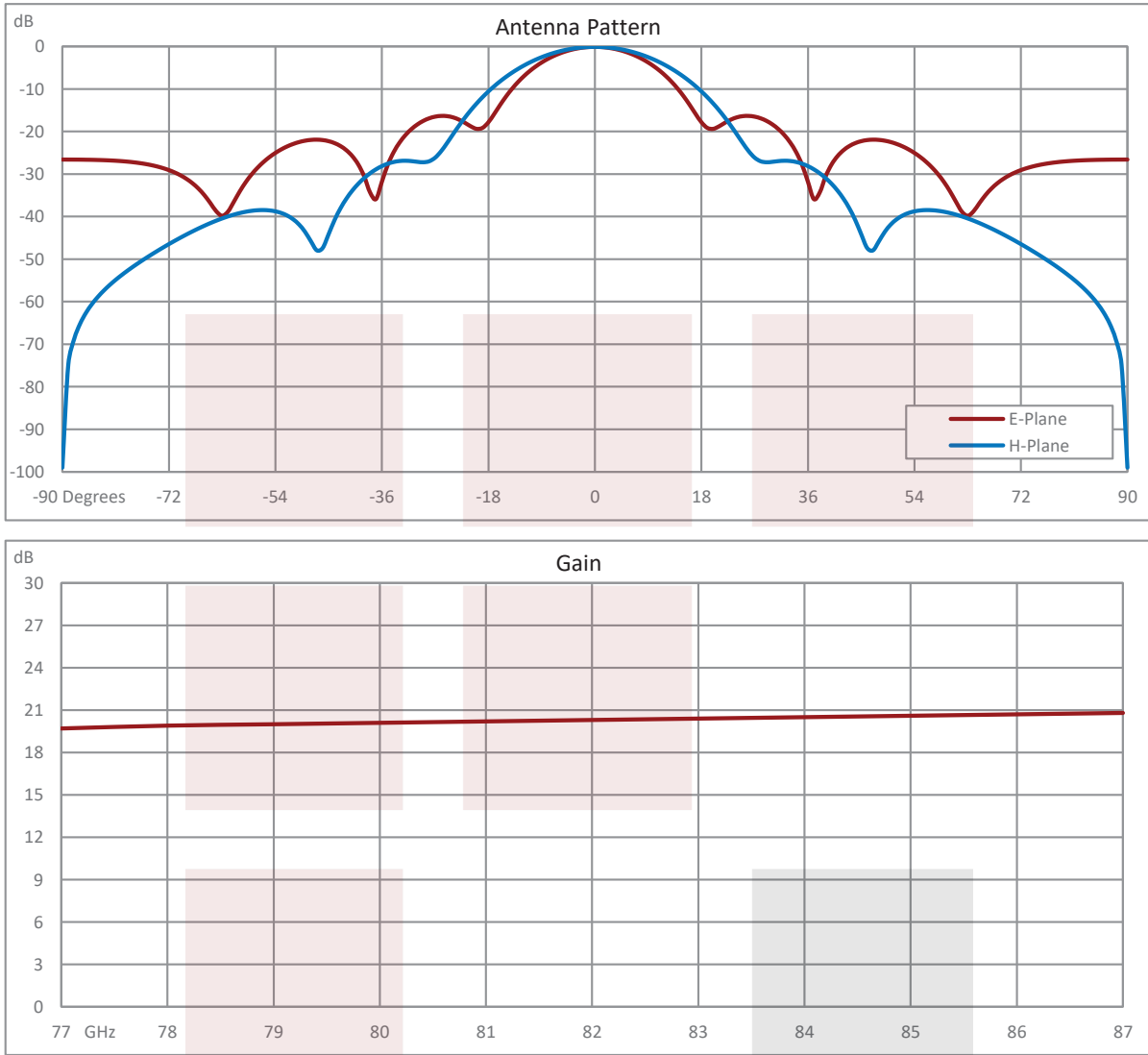
- Circular Waveguide Interface
- 77 GHz to 87 GHz
- 20 dBi Nominal Gain
- UG-387/U Round Cover Flange

#### Applications:

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

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**Typical Performance Data**

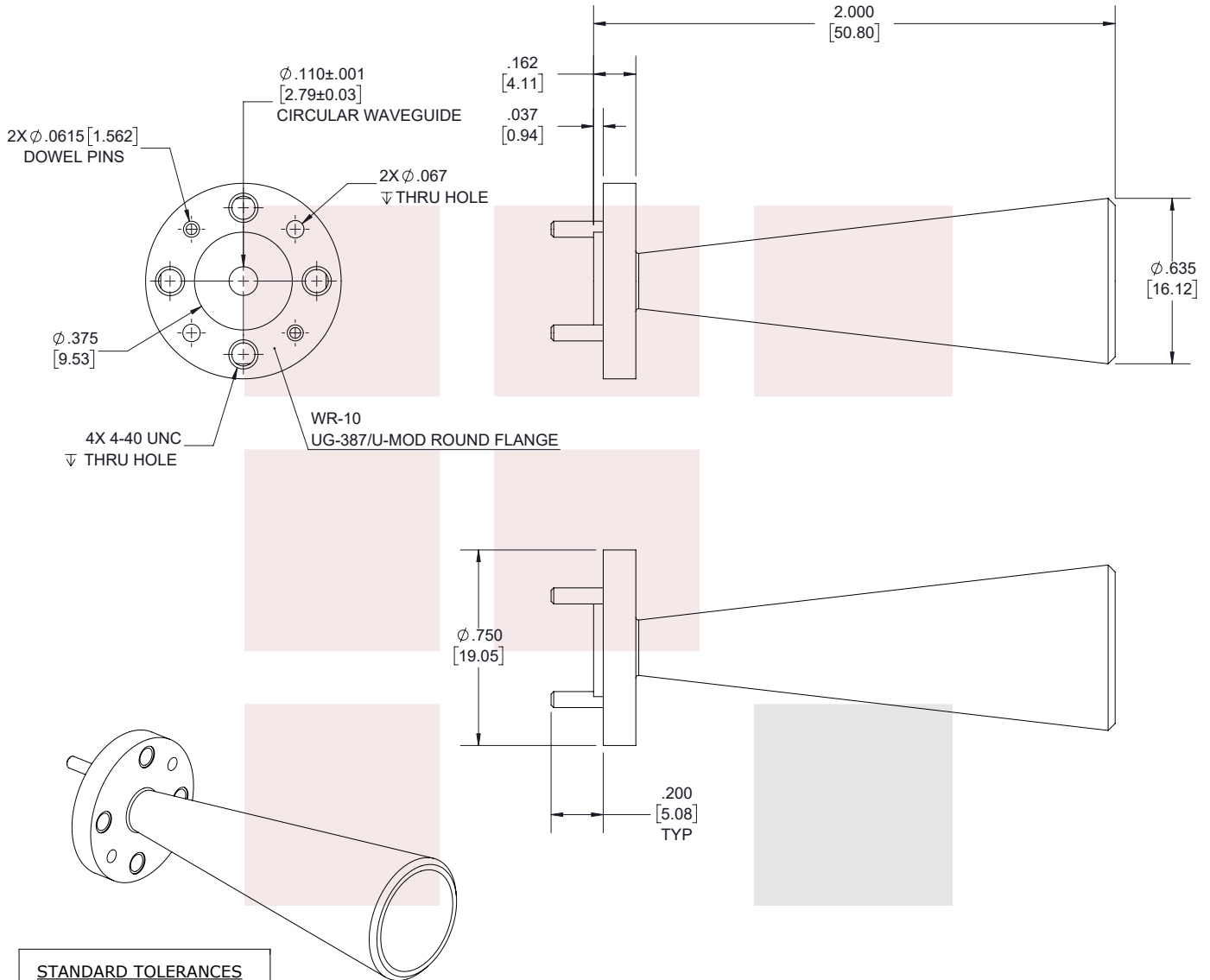


Conical Gain Horn Waveguide Antenna, WR-10, 77 GHz to 87 GHz, UG-387/U Round Cover Flange, 20 dBi Nominal Gain from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Conical Gain Horn Waveguide Antenna, WR-10, 77 GHz to 87 GHz, UG-387/U Round Cover Flange, 20 dBi Nominal Gain FMWAN1055](https://www.fairviewmicrowave.com/wr-10-waveguide-standard-gain-horn-20-dbi-ug-387-fmwan1055-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		DWG NO		CAGE CODE		
Conical Gain Horn Waveguide Antenna, WR-10, 77 GHz to 87 GHz, UG-387/U Round Cover Flange, 20 dB Nominal Gain		FMWAN1055		3FKR5		
CAD FILE	02/22/19	SHEET	1 OF 1	SCALE	N/A	SIZE A
						7361