

## Wide Angle Scalar Feed Horn Waveguide Antenna, WR-12, 72 GHz to 82 GHz, UG-385/U Round Cover Flange, 10 dBi Nominal Gain

Waveguide wide angle scalar feed 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 FMWAN1072 WR-12 waveguide wide angle scalar feed horn antenna operating from 77 GHz center frequency 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-385/U round cover flange. The FMWAN1072 WR-12 waveguide wide angle scalar feed horn antenna offers low gain variation across its operating frequency range.

### Configuration

Design	WR-12 Wide Angle Scalar Feed Horn
Pattern	Directional
Polarization	Linear

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	72		82	GHz
Nominal Gain		10		dBi
Horizontal 3dB Beam Width		56		Deg
Vertical 3dB Beam Width		55		Deg
VSWR		1.15:1		

### Mechanical Specifications

<b>Size</b>	
Length	1.26 in [32 mm]
Width/Diameter	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	0.046 lbs [20.87 g]

### Waveguide Interface

Waveguide Size	WR-12
Flange Type	Round Cover
Flange Designation	UG-385/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:

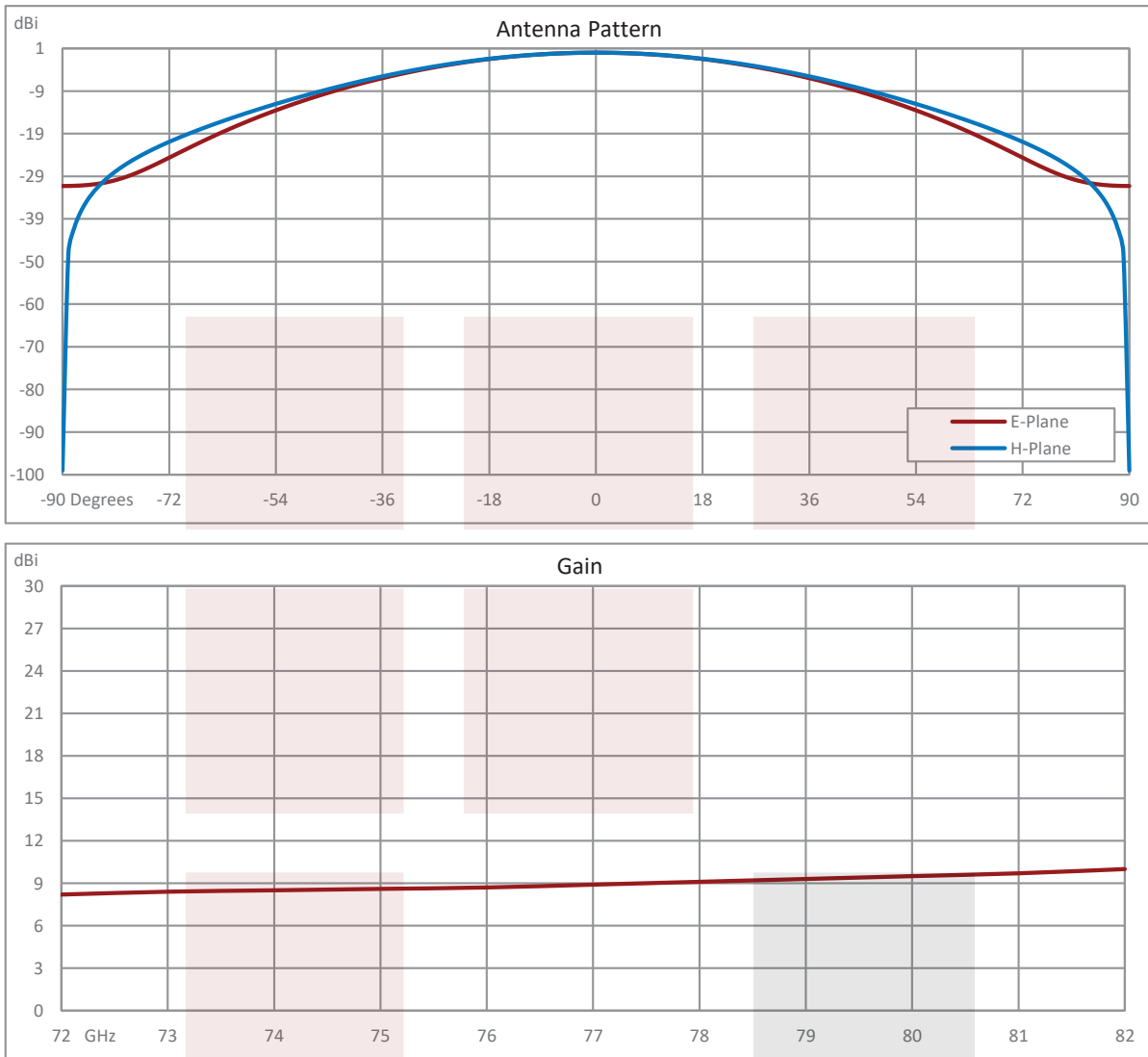
- Circular Waveguide Interface
- 77 GHz center frequency
- 10 dBi Nominal Gain
- UG-385/U Round Cover Flange

### Applications:

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

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**Typical Performance Data**

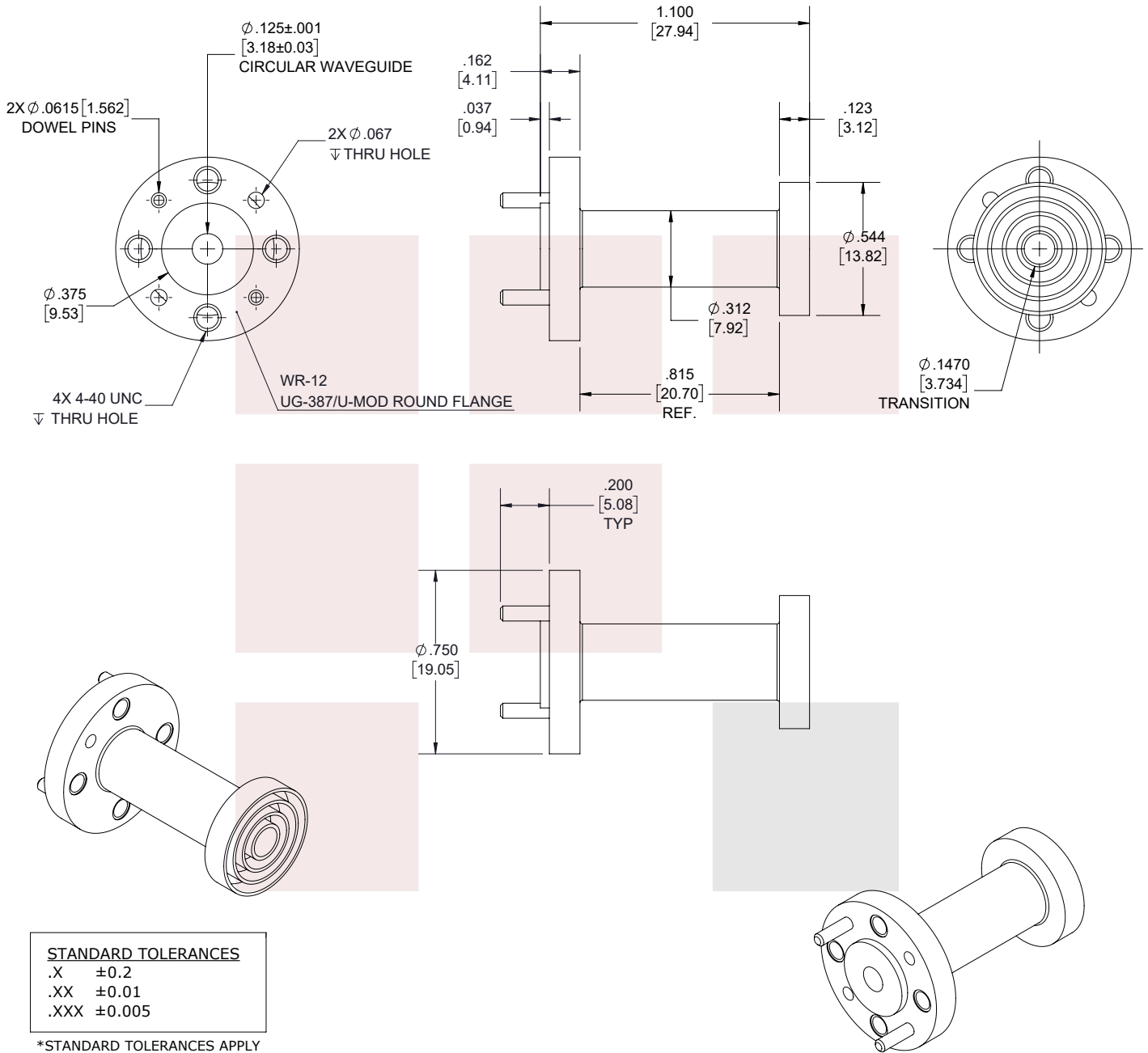


Wide Angle Scalar Feed Horn Waveguide Antenna, WR-12, 72 GHz to 82 GHz, UG-385/U Round Cover Flange, 10 dBi Nominal Gain from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Wide Angle Scalar Feed Horn Waveguide Antenna, WR-12, 72 GHz to 82 GHz, UG-385/U Round Cover Flange, 10 dBi Nominal Gain FMWAN1072](#)

URL: <https://www.fairviewmicrowave.com/wr-12-waveguide-standard-gain-horn-10-dbi-ug-385-fmwan1072-p.aspx>

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STANDARD TOLERANCES	
.X	$\pm 0.2$
.XX	$\pm 0.01$
.XXX	$\pm 0.005$

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

<p><b>Fairview Microwave</b> RF COMPONENTS ON DEMAND. <i>Done!</i></p>	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  Wide Angle Scalar Feed Horn Waveguide Antenna, WR-12, 72 GHz to 82 GHz, UG-385/U Round Cover Flange, 10 dBi Nominal Gain	DWG NO <b>FMWAN1072</b>	CAGE CODE <b>3FKR5</b>	
CAD FILE 02/22/19	SHEET 1 OF 1	SCALE N/A	SIZE A	7361