

Lens Horn Waveguide Antenna, WR-12, 72 GHz to 82 GHz, UG-387/U Round Cover Flange, 32 dBi Nominal Gain

Waveguide horn lens 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 FMWAN1079 WR-12 waveguide horn lens antenna operating from 77 GHz center frequency with a nominal 32 dBi gain is part of our full line of RF components available for same-day shipping. This Fairview Microwave circular horn antenna has a precision tolerance UG-387/U round cover flange. The FMWAN1079 WR-12 waveguide horn lens antenna offers low gain variation across its operating frequency range.

Configuration

Design	WR-12 Lens Horn
Pattern	Directional
Polarization	Linear

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	72		82	GHz
Nominal Gain		32		dBi
Horizontal 3dB Beam Width		4		Deg
Vertical 3dB Beam Width		4		Deg
VSWR		1.5:1		

Mechanical Specifications

Size	
Length	5.14 in [130.56 mm]
Width/Diameter	3 in [76.2 mm]
Height	3 in [76.2 mm]
Weight	0.715 lbs [324.32 g]

Waveguide Interface

Waveguide Size	WR-12
Flange Type	Round Cover
Flange Designation	UG-387/U
Body Material and Plating	Aluminum



Features:

- Circular Waveguide Interface
- 77 GHz center frequency
- 32 dBi Nominal Gain
- UG-387/U Round Cover Flange

Applications:

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

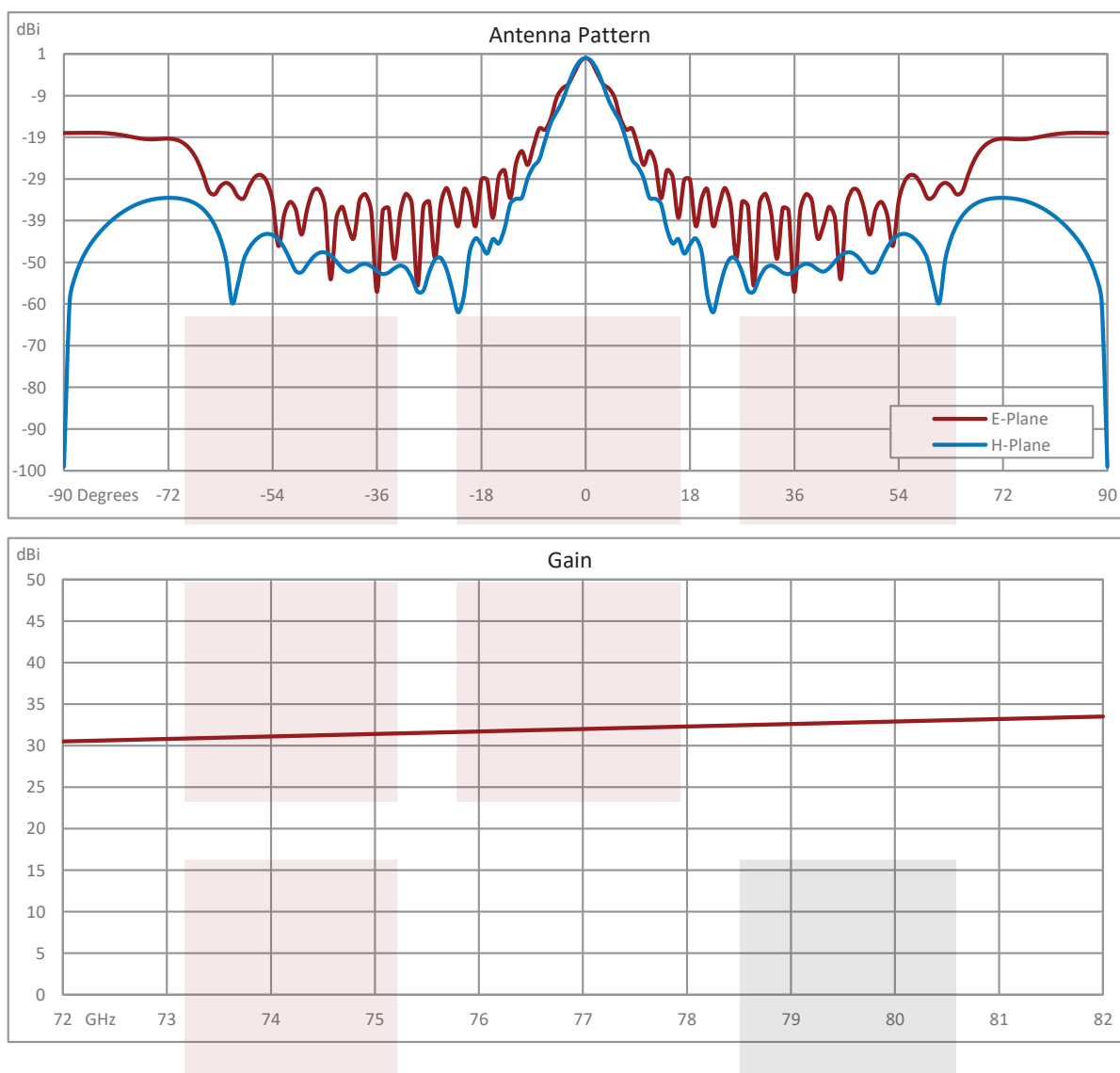
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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Typical Performance Data

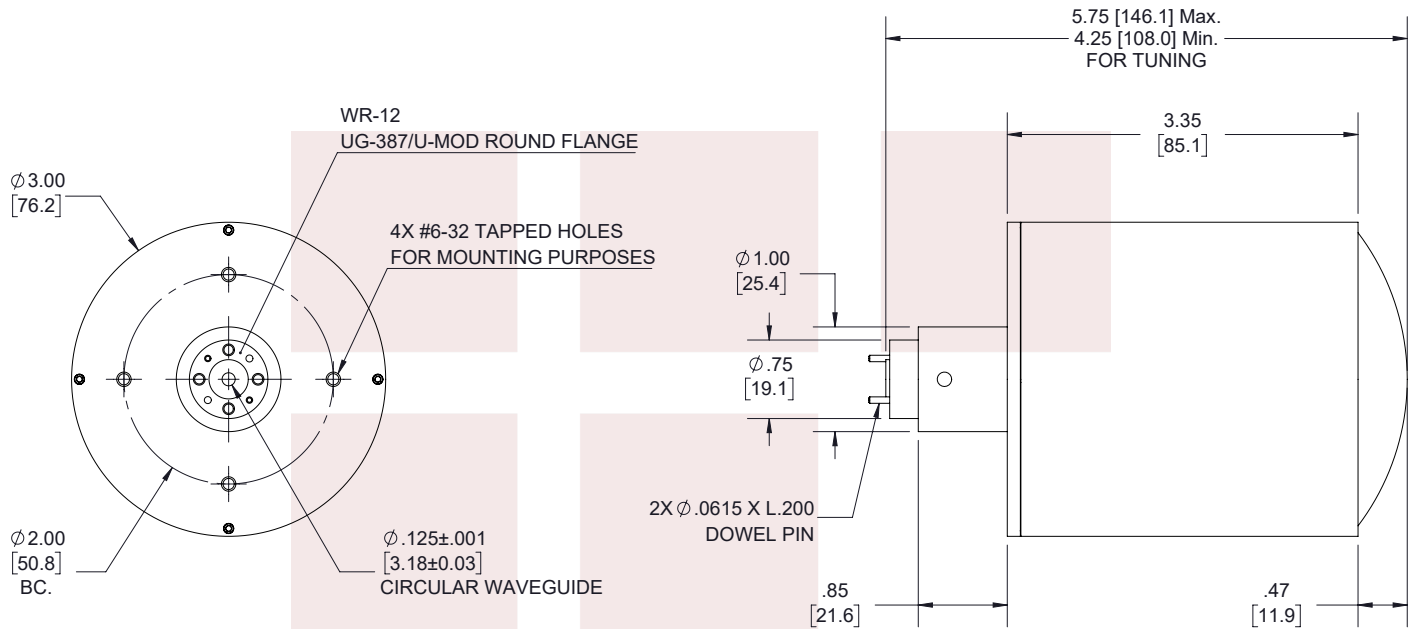


Lens Horn Waveguide Antenna, WR-12, 72 GHz to 82 GHz, UG-387/U Round Cover Flange, 32 dBi Nominal Gain from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Lens Horn Waveguide Antenna, WR-12, 72 GHz to 82 GHz, UG-387/U Round Cover Flange, 32 dBi Nominal Gain FMWAN1079](https://www.fairviewmicrowave.com/wr-12-waveguide-standard-gain-horn-32-dbi-ug-387-fmwan1079-p.aspx)

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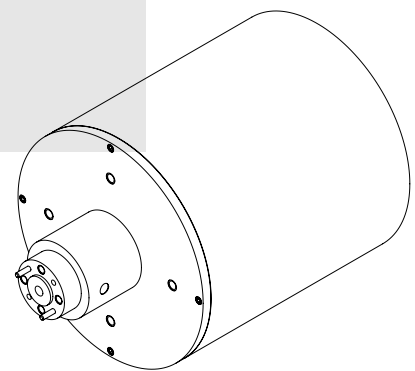
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STANDARD TOLERANCES

.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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Gain

DWG NO	FMWAN1079			CAGE CODE	3FKR5	
CAD FILE	02/22/19	SHEET	1 OF 1	SCALE	N/A	SIZE A
						7361