

# FMWAN1048 DATA SHEET

# Conical Gain Horn Waveguide Antenna, WR-12, 77 GHz to 87 GHz, UG-387/U Round Cover Flange, 25 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 FMWAN1048 WR-12 waveguide conical gain horn antenna operating from 77 GHz to 87 GHz with a nominal 25 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 FMWAN1048 WR-12 waveguide conical gain horn antenna offers low gain variation across its operating frequency range.



Design WR-12 Conical Gain Horn

Pattern Directional Polarization Linear

### **Electrical Specifications**

Description	Min	Тур	Max	Units
Frequency Range	77		87	GHz
Nominal Gain		25		dBi
Horizontal 3dB Beam Width	า	10		Deg
Vertical 3dB Beam Width		9		Deg
VSWR		1.15:1		

## **Mechanical Specifications**

Size

 Length
 3.66 in [92.96 mm]

 Width/Diameter
 1.09 in [27.69 mm]

 Height
 1.09 in [27.69 mm]

 Weight
 0.06 lbs [27.22 g]

**Waveguide Interface** 

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

**Compliance Certifications** (see product page for current document)

#### **Plotted and Other Data**

Notes:



# **Features:**

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

# **Applications:**

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

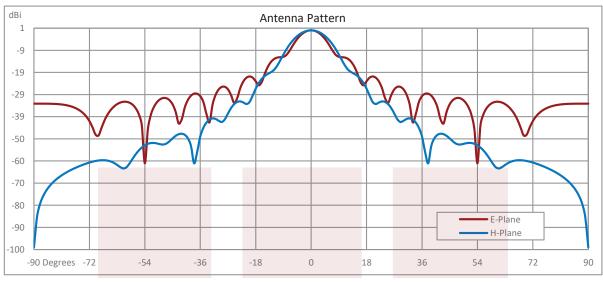
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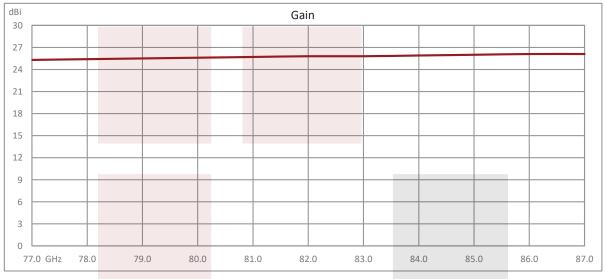
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# **Typical Performance Data**





Conical Gain Horn Waveguide Antenna, WR-12, 77 GHz to 87 GHz, UG-387/U Round Cover Flange, 25 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.

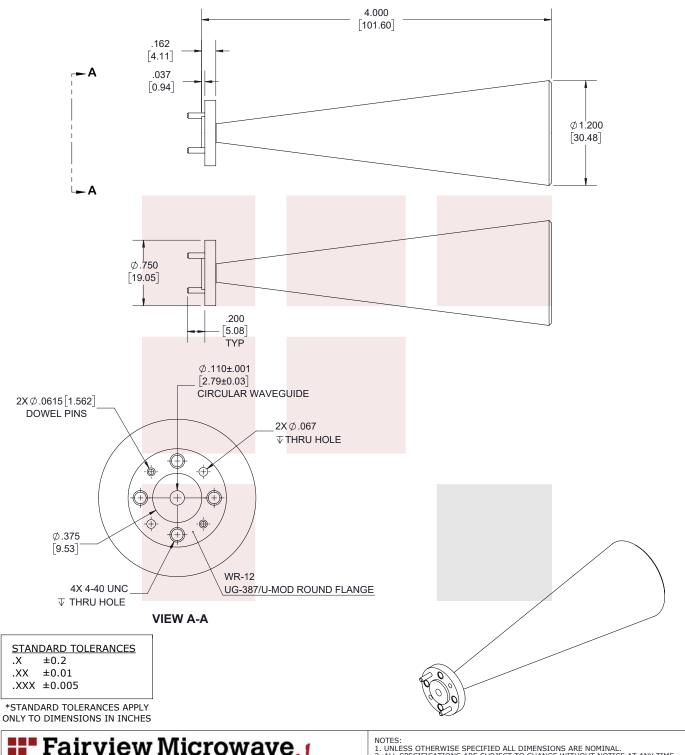
For additional information on this product, please click the following link: Conical Gain Horn Waveguide Antenna, WR-12, 77 GHz to 87 GHz, UG-387/U Round Cover Flange, 25 dBi Nominal Gain FMWAN1048

URL: https://www.fairviewmicrowave.com/wr-12-waveguide-standard-gain-horn-25-dbi-ug-387-fmwan1048-p.aspx

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Nominal Gain

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].

CAGE CODE

CAD FILE 02/22/19 SHEET 1 OF 1 SCALE N/A SIZE A 7361