

WR-12 Waveguide Fixed Attenuator, 30 dB,  
Operating from 60 GHz to 90 GHz, UG-387/U Round  
Cover Flange, Rated to 0.1 Watt



**FMWAT1020-30**

**Features**

- WR-12 Waveguide
- Typical Attenuation 30 dB
- Frequency Range 60 GHz to 90 GHz
- UG-385/U cover Flanges
- VSWR 1.25:1 Max
- 2 Watts (CW) Max Power Handling

**Applications**

- Instrumentation
- Research and Development
- System Calibration
- Test Benches

**Description**

FMWAT1020-30 is a WR-12 waveguide attenuator with 30 dB attenuation, operating in the 60 to 90 GHz frequency range. With typical VSWR performance of 1.25:1, the attenuator uses an UG-387/U cover flange that is made of gold plated brass. Fairview Microwave offers standard mid-band tuned Waveguide fixed attenuators with attenuation values from 3 to 30 dB. Waveguide fixed attenuators are part of Fairview Microwave's comprehensive waveguide product offerings which are available in stock and ready for same-day shipment.

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	60		90	GHz
Nominal Attenuation		30		dB
Attenuation		0.7		dB
VSWR			1.25:1	
Input Power (CW)			0.1	Watts

**Mechanical Specifications**

**Size**

- Length 1.97 in [50.04 mm]
- Width 0.75 in [19.05 mm]
- Height 0.75 in [19.05 mm]
- Weight 0.13 lbs [58.97 g]
- Finish Grey Paint

Description	Flange 1	Waveguide	Flange 2
Interface	UG-387/U	WR-12	UG-387/U
Material	Brass Copper	Brass Copper	Brass Copper
Plating	Gold	Gold	Gold

**Environmental Specifications**

**Temperature**

- Operating Range -40 to +70 deg C
- Storage Range -55 to +85 deg C

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## FMWAT1020-30



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

### Plotted and Other Data

Notes:

WR-12 Waveguide Fixed Attenuator, 30 dB, Operating from 60 GHz to 90 GHz, UG-387/U Round Cover Flange, Rated to 0.1 Watt 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-12 Waveguide Fixed Attenuator, 30 dB, Operating from 60 GHz to 90 GHz, UG-387/U Round Cover Flange, Rated to 0.1 Watt FMWAT1020-30](#)

URL: <https://www.fairviewmicrowave.com/wr-12-waveguide-attenuator-fixed-30-db-operating-from-60-to-90-ghz-ug-387-u-flange-fmwat1020-30-p.aspx>

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# FMWAT1020-30 CAD Drawing

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