

WR-12 Waveguide Power Detector, E Band, 60 GHz to 90 GHz, Positive Output Voltage Polarity, UG-387/U Flange

The FMMT3011 is a WR-12 Waveguide Power Detector, operating across the E Band from 60 GHz to 90 GHz. This 50 Ohm design features Positive Output Voltage Polarity. Impressive typical performance includes Video Sensitivity of 800 mV/mW with +/- 2dB flatness, Tangential Sensitivity of -50 dBm, Input Dynamic Range of -55 dBm to +10 dBm, and Detection Speed Rise Time of 5 nsec. Maximum input power handling is +17 dBm. The rugged and small size Brass package design is gold plated and supports a UG-387/U waveguide flange pattern at RF input and output ports. The DC output port uses an SMA Female connector. The module operates across a temperature range from 0°C to +50°C.

Electrical Specifications

Description	Min		Тур	Max	Unit
Frequency Range	60			90	GHz
Voltage Sensitivity			1,100		mV/mW
RF Input Power				+17	dBm
Tangential Sensitivity			-50		dBm
Sensitivity Flatness			2		dB
Dynamic Range	-55			+10	dBm
Output Voltage Polarity		Р	ositive		
RF Input Power for Squa <mark>re Law Region</mark>				-20	dBm
Video Bandwidth			1		GHz
RF Input Power applied for testing			-20		dBm
Detection Speed, Rise Time			5		ns

Mechanical Specifications

Temperature Operating Range	0 to +50 deg C
Size Length Width Height	1.104 in [28.04 mm] 0.89 in [22.61 mm] 1.114 in [28.3 mm]
Weight	0.15 lbs [68.04 g]
Waveguide Size Flange Destination Flange Type DC Connector Material and Plating	WR-12 UG-387/U Round Cover SMA Female Brass, Gold

Compliance Certifications (see product page for current document)

Plotted and Other Data

- Notes:
- Values at 25 °C, sea level





Features:

- WR-12 Waveguide Power Detector
- 60 GHz to 90 GHz
- Ka Band
- Positive Output Voltage Polarity
- Voltage Sensitivity 800 mV/mW
- Sensitivity Flatness +/- 2dB typ
- Tangential Sensitivity
 -50 dBm typ
- Input Dynamic Range -55 dBm to +10 dBm
- Detection Speed Rise Time 5 nsec typ
- Max RF Input Power +17 dBm
- 50 Ohm Design
- RF Input and Output Waveguide Flange UG-387/U
- SMA Female DC Output Port
- Operational Temperature Range -0°C to +50°C
- Rugged and Compact Brass Gold Plated Package Design

Applications:

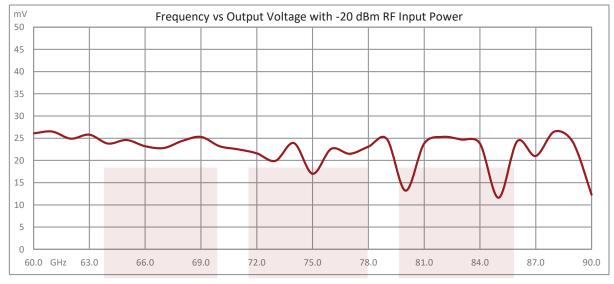
- Test & Measurement
- Military & Commercial Communications
- Military Electronic Systems
- Research & Development

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FMMT3011 DATA SHEET

Typical Performance Data



WR-12 Waveguide Power Detector, E Band, 60 GHz to 90 GHz, Positive Output Voltage Polarity, UG-387/U Flange 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: E Band WR-15 Waveguide Power Detector, V Band, 50 GHz to 75 GHz, Positive Output Voltage Polarity, UG-385/U Flange FMMT3011

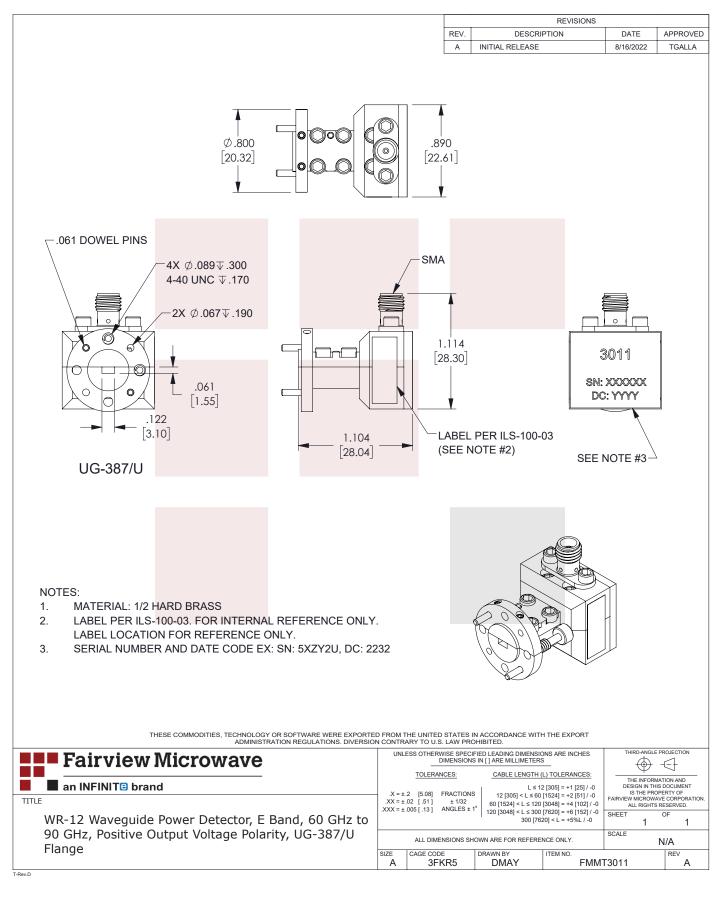
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