

FMMT3010 DATA SHEET

WR-15 Waveguide Power Detector, V Band, 50 GHz to 75 GHz, Positive Output Voltage Polarity, UG-385/U Flange

The FMMT3010 is a WR-15 Waveguide Power Detector, operating across the V Band from 50 GHz to 75 GHz. This 50 Ohm design features Positive Output Voltage Polarity. Impressive typical performacne includes Video Sensitivity of 1000 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-385/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	50			75	GHz
Voltage Sensitivity			1,200		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	re Law Region			-20	dBm
Video Bandwidth			1		GHz
RF Input Power applied f	for testing		-20		dBm
Detection Speed, Rise Ti	me		5		ns

Mechanical Specifications

Temperature

Operating Range 0 to +50 deg C

Size

Length 1.3 in [33.02 mm]
Width 0.89 in [22.61 mm]
Height 1.114 in [28.3 mm]
Weight 0.15 lbs [68.04 q]

Waveguide Size WR-15
Flange Destination UG-385/U
Flange Type Round Cover
DC Connector SMA Female
Material and Plating Brass, Gold

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

· Values at 25 °C, sea level



Features:

- WR-15 Waveguide Power Detector
- 50 GHz to 75 GHz
- V Band
- Positive Output Voltage Polarity
- Voltage Sensitivity 1000 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-599/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

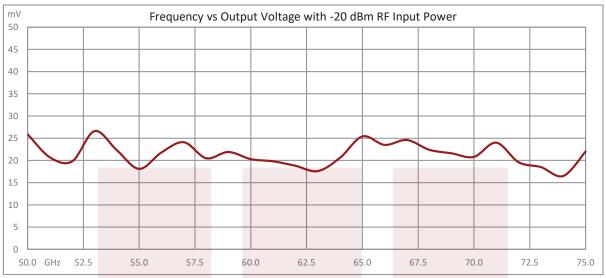
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Typical Performance Data



WR-15 Waveguide Power Detector, V Band, 50 GHz to 75 GHz, Positive Output Voltage Polarity, UG-385/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: V Band WR-15 Waveguide Power Detector, V Band, 50 GHz to 75 GHz, Positive Output Voltage Polarity, UG-385/U Flange FMMT3010

URL:

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