



WR-28 Waveguide Power Detector, Ka Band, 26.5 GHz to 40 GHz, Positive Output Voltage Polarity, UG-599/U Flange

The FMMT3007 is a WR-28 Waveguide Power Detector, operating across the Ka Band from 26.5 GHz to 40 GHz. This 50 Ohm design features Positive Output Voltage Polarity. Impressive typical performacne includes Video Sensitivity of 1500 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-599/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	26.5			40	GHz
Voltage Sensitivity			1,500		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	or testing		-20		dBm
Detection Speed, Rise Time			5		ns

Mechanical Specifications

Temperature

Operating Range 0 to +50 deg C

Size

Length 1.894 in [48.11 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-28
Flange Destination UG-599/U
Flange Type Square 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-28 Waveguide Power Detector
- 26.5 GHz to 40 GHz
- Ka Band
- Positive Output Voltage Polarity
- Voltage Sensitivity 1500 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

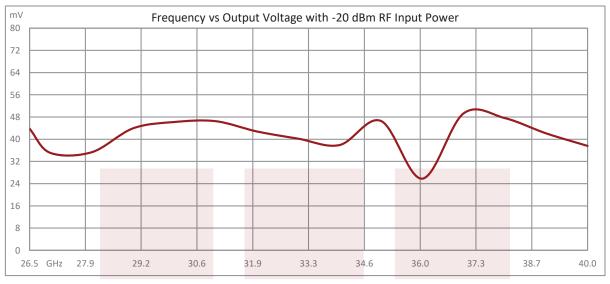
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Typical Performance Data



WR-28 Waveguide Power Detector, Ka Band, 26.5 GHz to 40 GHz, Positive Output Voltage Polarity, UG-599/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: Ka Band Waveguide Amplitude Detector, WR-28, Positive Output Voltage Polarity, UG-599/U Flange FMMT3007

URL:

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