

FMMT1009 DATA SHEET

Biased Detector With SMA Male to SMA Female and Negative Video Out Operating From 18 GHz to 26 GHz

The FMMT1009 is a biased Schottky detector that displays an extremely flat frequency response over a broad frequency range from 18 GHz to 26 GHz. The model features Negative video output polarity, with no external DC bias source is required. Additional features include 50 ohm matched inputs, high voltage sensitivity for very small signal detection of 1500 mV/mW typical, and can withstand maximum input power levels up to +23 dBm CW. Operating temperature range is -55°C to +125°C. The compact and rugged cylindrical package supports an SMA male input connector and SMA female output connector and is ideal for use with precision test and measurement, instrumentation, and subsystem assemblies.

Electrical Specifications

Description	Min	Тур	Max	Unit
Frequency Range	18		26	GHz
Flatness		±1		dB
Input Power			+23	dBm

Operating Temperature Ran	ige -55	+125	deg C

Electrical Specification Notes:

@ +25 deg C, 100uA Bias, and -20 dBm Pin Voltage Sensitivity is that of an open circuit

TSS is measured with a 2 MHz video bandwidth and a 2 dB NF Amplifier



Features:

- · Biased Schottky Diode Detector
- 18 GHz to 26 GHz Frequency Range
- Extremely Flat Frequency Response
- Maximum Input Power +23 dBm
- Negative Video Output Polarity

Applications:

- · Electronic Warfare
- Test & Measurement
- System Monitoring
- AM Noise Measurements
- · Military & Space
- Radar
- Pulsed RF Measurements in Ultra Broadband Applications
- Leveling Pulse Signal Sources
- Military Communications Systems

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689

www.fairviewmicrowave.com sales@fairviewmicrowave.com





Mechanical Specifications

Size

 Length
 1.21 in [30.73 mm]

 Width
 0.327 in [8.31 mm]

 Height
 0.65 in [16.51 mm]

Weight 0.0205 lbs [9.3 g]

Connector 1 SMA Male Connector 2 SMA Female

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C Storage Range -65 to +150 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Biased Detector With SMA Male to SMA Female and Negative Video Out Operating From 18 GHz to 26 GHz 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: Biased Detector With SMA Male to SMA Female and Negative Video Out Operating From 18 GHz to 26 GHz FMMT1009

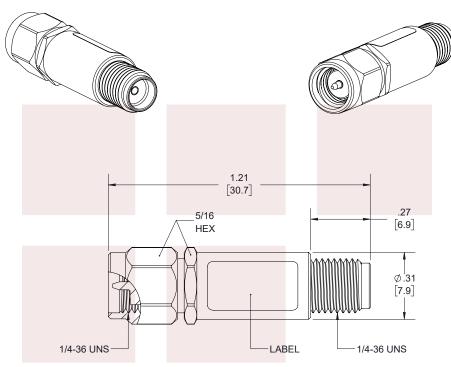
URL: https://www.fairviewmicrowave.com/biased-detector-sma-male-18-26-ghz-fmmt1009-p.aspx

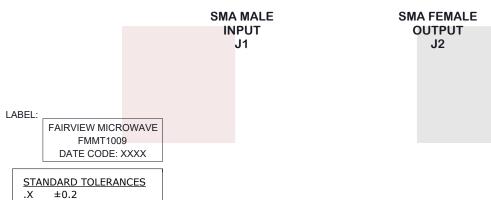
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689









*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

.XX ±0.01 .XXX ±0.005

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	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].					
Biased Detector With SMA Male to SMA Female and	DWG NO FMMT		CAGE CODE 3FKR5			
Negative Video Out Operating From 18 GHz to 26 GHz	CAD FILE 110117	SHEET 1 OF 1	SCAL	E N/A	SIZE A	7361