

SMD0126 DATA SHEET

Zero Bias Detector With SMA Male to SMA Female and Negative Video Out Operating From 10 MHz to 26.5 GHz

The SMD0126 is a zero bias Schottky detector that displays an extremely flat frequency response over a broad frequency range from 10 MHz to 26.5 GHz. The model features negative video output polarity and operates over a wide dynamic range of -30 dBm to +20 dBm input power. No external DC bias source is required. Performance includes 50 ohm matched inputs for excellent VSWR of 1.7:1 typical, high voltage sensitivity for very small signal detection of 100 mV/mW typical, and can withstand maximum input power levels up to +20 dBm CW. Operating temperature range is 0°C to +90°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	10 MF	lz		26.5 GHz	
Voltage Sensitivity			100		mV/mW
Input Power				+20	dBm
Video Capacitance			470		pF
Dynamic Range	-30			+20	dBm

Typical (or Max) Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.01 to 18	18 to 26.5				GHz
VSWR	1.7:1	2.2:1				
Flatness (Typ)	±0.25	±0.5				dB

Mechanical Specifications

Temperature

Operating Range -54 to +100 deg C Storage Range -65 to +100 deg C

Size

Length 1.21 in [30.73 mm] Weight 0.0194 lbs [8.8 g]

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

- Values at +25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.



Features:

- Zero Bias Schottky Diode Detector
- 10 MHz to 26.5 GHz Frequency Range
- Extremely Flat Frequency Response
- Maximum Input Power +20 dBm, Peak Input Power +27 dBm
- Negative Video Output Polarity

Applications:

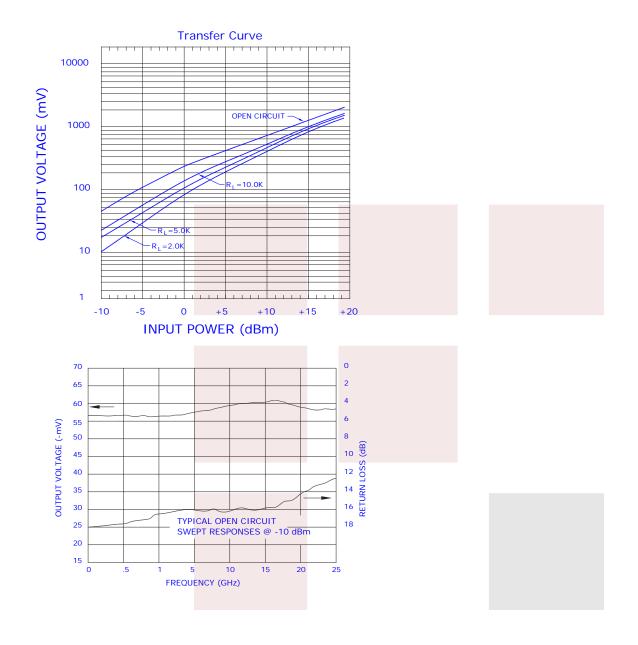
- Electronic Warfare
- · Test & Measurement
- System Monitoring
- AM Noise Measurements
- Military & Space
- Radar
- Pulsed RF Measurements in Ultra Broadband Applications
- Leveling Pulse Signal Sources
- Military Communications Systems

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Zero Bias Detector With SMA Male to SMA Female and Negative Video Out Operating From 10 MHz to 26.5 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 Allen, Texas. Fairview Microwave is RF on-demand.

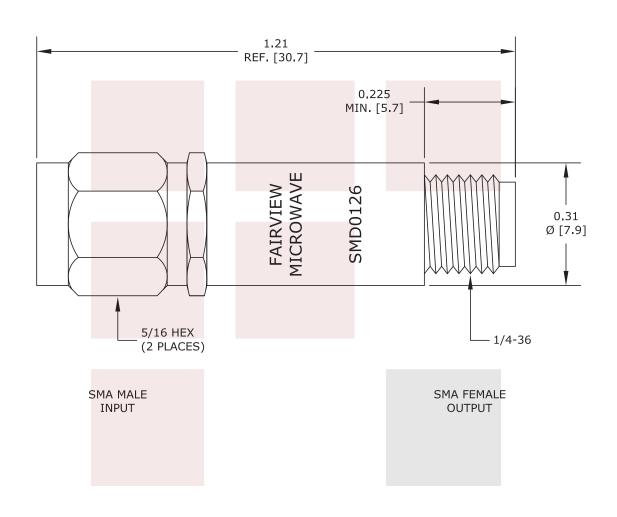
For additional information on this product, please click the following link: Zero Bias Detector With SMA Male to SMA Female and Negative Video Out Operating From 10 MHz to 26.5 GHz SMD0126

URL: https://www.fairviewmicrowave.com/zero-biased-detector-sma-male-negative-10-mhz-26.5-ghz-smd0126-p.aspx









STANDARD TOLERANCES
.X ±0.2

.X ±0.2 .XX ±0.1 .XXX ±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].					
Zero Bias Detector With SMA Male to SMA Female and Negative Video Out Operating From 10 MHz to 26.5 GHz	DWG NO SMD0126			CAGE CODE 3FKR5		
	CAD FILE 091616	SHEET	SCAL	E N/A	SIZE A	2233