



Schottky Zero Bias Detector, 2 GHz to 18 GHz, SMA, Negative Video Out, +20 dBm max Pin

The SMD0218 is a zero bias Schottky detector that displays an extremely flat frequency response over a broad frequency range from 2 GHz to 18 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 1.6:1 typical, high voltage sensitivity for very small signal detection of 500 mV/mW typical, and can withstand maximum input power levels up to +20 dBm CW. Operating temperature range is -25°C to +80°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	1	Гур	Max	Unit
Frequency Range	2			18	GHz
VSWR		1	1.6:1	1.7:1	
Voltage Sensitivity			500		mV/mW
Flatness		:	±0.4	±0.5	dB
Input Power				+20	dBm
Video Output Resistance					
Video Capacitance			20		pF
Dynamic Range	-30			+20	dBm
Operating Temperature Range -25				+80	deg C



Features:

- Zero Bias Schottky Diode Detector
- 2 GHz to 18 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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Mechanical Specifications

Size

Length 1.21 in [30.73 mm]
Weight 0.023 lbs [10.43 g]

Connector 1 SMA Male
Connector 2 SMA Female

Environmental Specifications

Temperature

Operating Range -25 to +80 deg C Storage Range -45 to +100 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

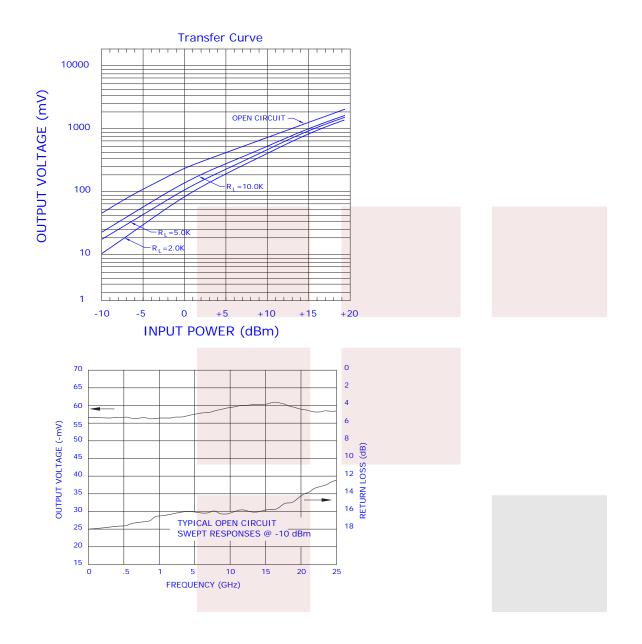
Notes:

Typical Performance Data













Schottky Zero Bias Detector, 2 GHz to 18 GHz, SMA, Negative Video Out, +20 dBm max Pin from Fairview Microwave is instock 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.

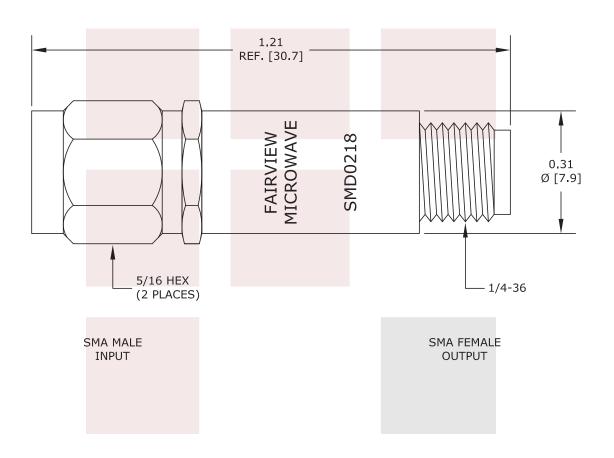
For additional information on this product, please click the following link: Schottky Zero Bias Detector, 2 GHz to 18 GHz, SMA, Negative Video Out, +20 dBm max Pin SMD0218

URL: https://www.fairviewmicrowave.com/zero-biased-detector-sma-male-negative-2-18-ghz-smd0218-p.aspx









STANDARD TOLERANCES
.X ±0.2
.XX ±0.1

XX ±0.1 XXX ±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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Schottky Zero Bias Detector, 2 GHz to 18 GHz, SMA,	DWG NO SMD0218			CAGE CODE 3FKR5				
Negative Video Out, +20 dBm max Pin	CAD FILE 091616	SHEET	SCALE	N/A	SIZE A	2233		