

SMD0118 DATA SHEET

Zero Bias Detector With SMA Male to SMA Female and Negative Video Out Operating From 10 MHz to 18.5 GHz

The SMD0118 is a zero bias Schottky detector that displays an extremely flat frequency response over a broad frequency range from 10 MHz to 18.5 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 1.6:1 typical, high voltage sensitivity for very small signal detection of 400 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 MH	z		18.5 GHz	
VSWR			1.6:1	1.7:1	
Voltage Sensitivity			400		mV/mW
Flatness			±0.5	±0.6	dB
Input Power				+20	dBm
Video Capacitance			470		рF
Dynamic Range	-30			+20	dBm

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	0.02205 lbs [10 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 18.5 GHz Frequency Range
- Extremely Flat Frequency Response
- Maximum Input Power +20 dBm, Peak Input Power +27 dBm
- Negative Video Output Polarity

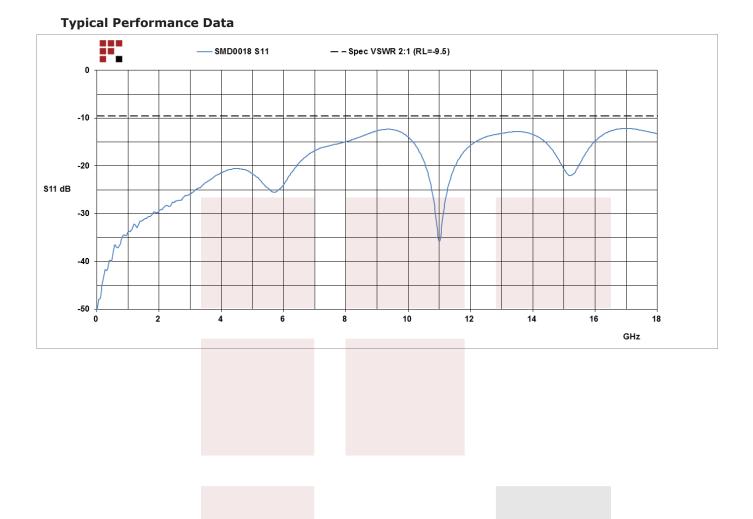
Applications:

- 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

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com

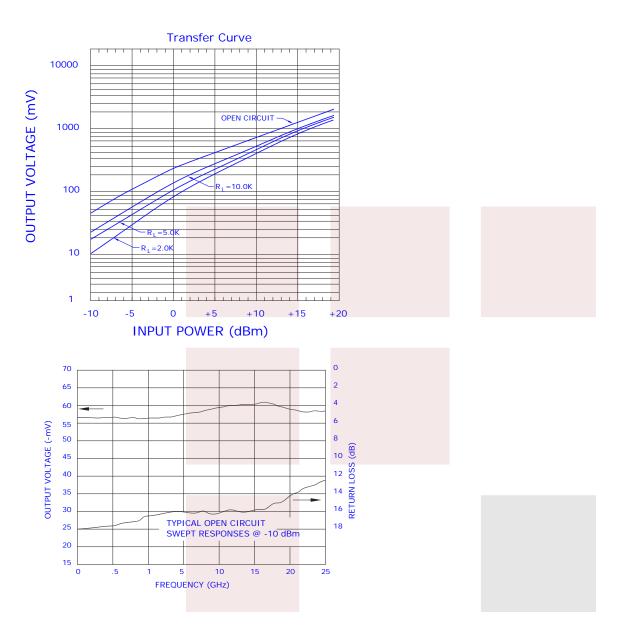












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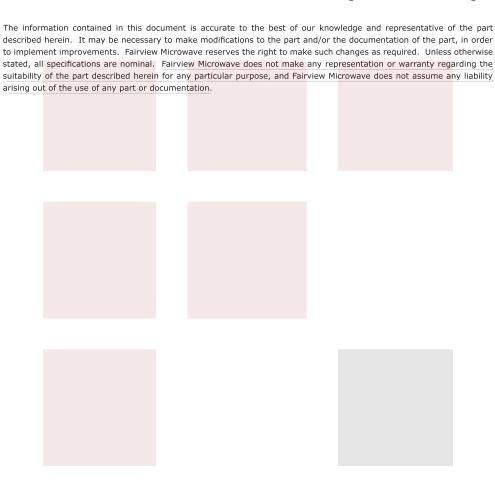




Zero Bias Detector With SMA Male to SMA Female and Negative Video Out Operating From 10 MHz to 18.5 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

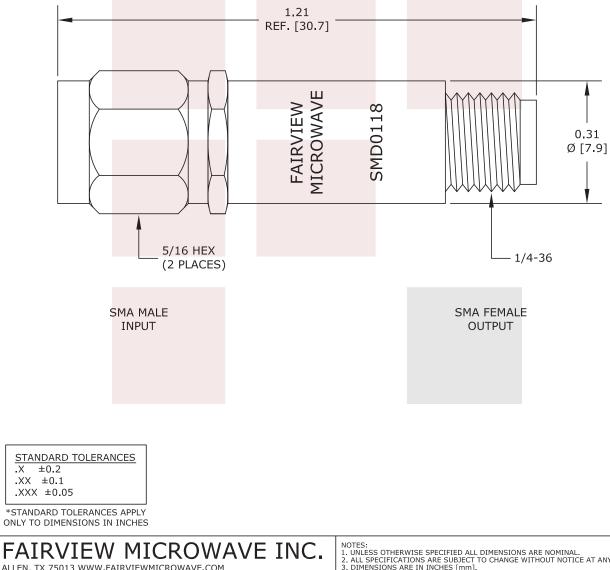
For additional information on this product, please click the following link: Zero Bias Detector With SMA Male to SMA Female and Negative Video Out Operating From 10 MHz to 18.5 GHz SMD0118

URL: https://www.fairviewmicrowave.com/zero-biased-detector-sma-male-negative-100-mhz-18-ghz-smd0118-p.aspx









	ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].							
	E ro Bias Detector With SMA Male to SMA Female and	DWG NO SMD0118			CAGE CODE 3FKR5			FKR5	
Negative Video Out Operating From 10 MHz to 18.5 GHz	CAD FILE	091616	SHEET	SCAL	.E N/A	SIZE A	2233		

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