

ACSP-2539

Padded Zero Bias Schottky Detector

Features:

- Contains hermetically sealed modules, internal RF matching, DC return, and RF Bypass capacitor.
- The video port is protected from static or transient charges.
- Input impedance matching.
- Models may Be chosen for BroadBand RF performance of for optimized narrow Bands



Specifications:

Parameter	Specification	Units
Frequency Range (min)	0.01 – 8	GHz
Flatness vs. Frequency (max)	0.5	±dB
Typical TSS	-45	dBm
Internal Attenuation	6	dB
Sensitivity (min)	500	mV/mW

Notes:

Maximum input power: +23 dBm

Sensitivity is measured into an open circuit load $\geq 10k \text{ ohm}$.

The temperature performance of the zero Bias schottky is poor when operating at low input power levels.

SCREENING:

Internal Visual per MIL-STD-883, Method 2017

Temperature Cycle: -65°C to +100°C, 10 cycles

OPTIONAL HIGH-REL SCREENING (Ref MIL-PRF-38534):

Stabilization Bake per MIL-STD-883, Method 1008

Temperature Cycle per MIL-STD-883, Method 1010

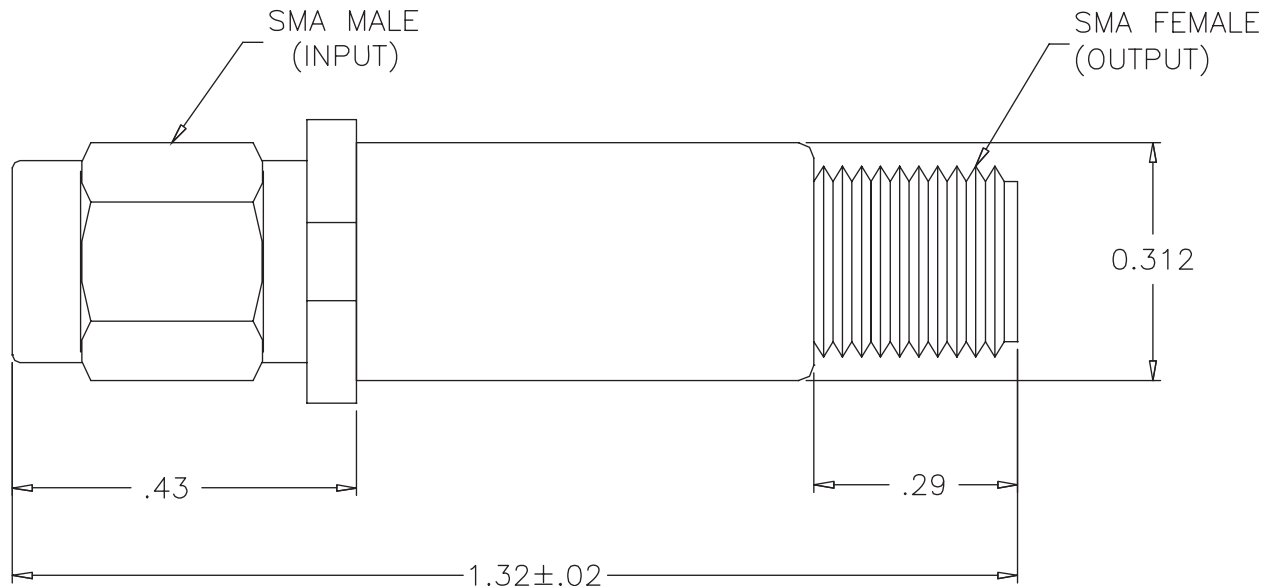
Constant Acceleration per MIL-STD-883, Method 2001

Burn-in per MIL-STD-883, Method 1015

Leak Test per MIL-STD-883, Method 1014

External Visual per MIL-STD-883, Method 2009

Outline Drawing:



STANDARD CASE STYLE C3
(Optional Case Styles – C15, C32)

Part Number Ordering Information:

- Add desired polarity suffix: "N" for Negative, "P" for Positive (Ex: ACSP-2539N)
- Add "Z" for zero Biased schottky (Ex: ACSP-2539NZ)
- Add desired case style suffix: "C3" (Ex: ACSP-2539NZC3)
- Add "-RC" suffix: RoHS-compliant (Ex: ACSP-2539NZC3-RC)

Aeroflex Signal & Control Solutions

Aeroflex Microelectronic Solutions
40 Industrial Way East
Eatontown, NJ 07724 [USA]
Fax: (732) 460-0214

Sales
Phone: (732) 460-0212
ASCS-sales@aeroflex.com

www.aeroflex.com/Microwave www.aeroflex.com/ASCS

Aeroflex Signal & Control Solutions reserves the right to make changes to any products and services herein at any time without notice. Consult Aeroflex or an authorized sales representative to verify that the information in this data sheet is current Before using this product. Aeroflex does not assume any responsibility or liability arising out of the application or use of any product or service described herein, except as expressly agreed to in writing By Aeroflex; nor does the purchase, lease, or use of a product or service from Aeroflex convey a license under any patent rights, copyrights, trademark rights, or any other of the intellectual rights of Aeroflex or of third parties.

Copyright 2013 Aeroflex Signal & Control Solutions. All rights reserved.

ISO 9001:2008 certified



Our passion for performance is defined By three attributes represented By these three icons: solution-minded, performance-driven and customer-focused.