

# ACSP-2518

## 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 or for optimized narrow bands



### Specifications:

Parameter	Specification	Units
Frequency Range (min)	7.9 – 8.4	GHz
Flatness vs. Frequency (max)	0.1	mV/mW
Typical TSS	-45	±dB
Internal Attenuation	6	dBm
Sensitivity (min)	500	pF

### Notes:

Maximum input power: +23dBm

Sensitivity is measured into an open circuit load (>10k ohm).

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

### Environmental Specifications:

Designed to meet:

MIL-E-5400, MIL-STD-202, MIL-E-16400

Operating Temp: -55°C to +125°C

Storage Temp: -65°C to +150°C

Humidity: MIL-STD-202F, M103, Cond B

Shock: MIL-STD-202F, M213, Cond B

Altitude: MIL-STD-202F, M105, Cond B

Vibration: MIL-STD-202F, M204, Cond B

Thermal Shock: MIL-STD-202F, M107, Cond A

Temperature Cycle: MIL-STD-202F, M105C, Cond D

### 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

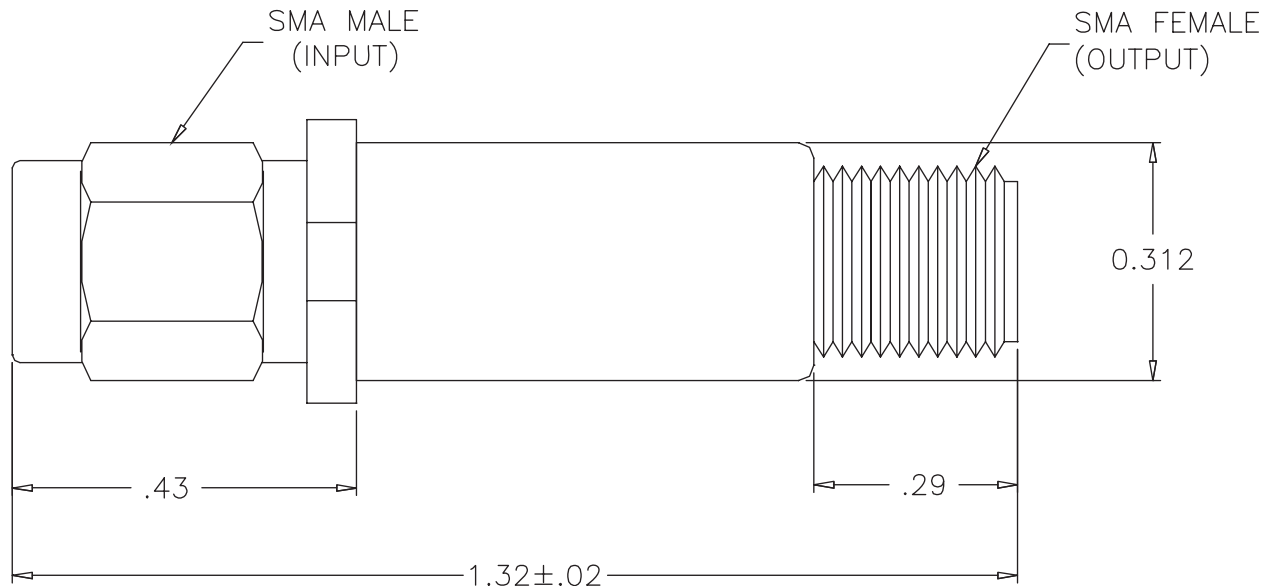
Temperature Cycle per MIL-STD-883, Method 1010

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



STANDARD CASE STYLE C3  
(Optional Case Styles – C8, C15, C32)

### Part Number Ordering Information:

- Add desired polarity suffix: "N" for Negative, "P" for Positive (Ex: ACSP-2518N)
- Add "Z" for zero biased schottky (Ex: ACSP-2518NZ)
- Add desired case style suffix: "C3" (Ex: ACSP-2518NZC3)
- Add "R" suffix: Reverse Connector Configuration (Ex: ACLM-2518NZC3R) (SMA Female Input/SMA Male Output)
- Add "-RC" suffix: RoHS-compliant (Ex: ACSP-2518NZC3-RC)

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ISO 9001:2008 certified



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