ACSP-2538 Biased Coaxial 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



A passion for performance.

Specifications:

Parameter	Specification	Units
Frequency Range (min)	0.1 – 2	GHz
Sensitivity (min)	2000	mV/mW
Flatness vs. Frequency (max)	0.3	±dB
Typical TSS	-52	dBm
Nominal Video Capacitance	270	pF

Notes:

Maximum input power: +20dBm

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

VSWR is measured at or below -20dBm input power level.

Standard bias is 100uA.

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):

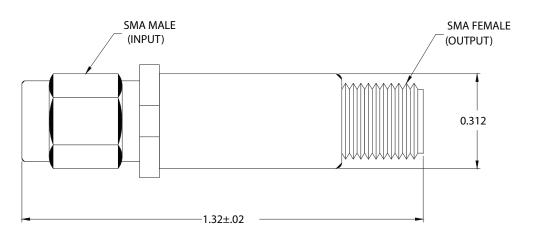
Stabilization Bake per MIL-STD-883, Method 1008 Temperature Cycle per MIL-STD-883, Method 1010 Constant Acceleration per MIL-STD-883, Method 2001

Burn-in per MIL-STD-883, Method 1015 Leak Test per MIL-STD-883, Method 1014 External Visual per MIL-STD-883, Method 2009



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

Part Number Ordering Information:

- Add desired polarity suffix: "N" for Negative, "P" for Positive (Ex: ACSP-2538N)
- Add "Z" for zero biased schottky option (Ex: ACSP-2538NZ)
- Add desired case style suffix: "C3" (Ex: ACSP-2538NZC3)
- Add "R" suffix: Reverse Connector Configuration (Ex: ACSP-2538NZC3R) (SMA Female Input/SMA Male Output)
- Add "-RC" suffix: RoHS-compliant (Ex: ACSP-2538NZC3R-RC)

Notes (Continued):

- Video capacitance is used for RF bypass. This value can be changed if required for video response time. Contact the factory for more information.
- This part number is also available with a zero bias schottky diode.
- Due to higher impedance, the zero bias schottky will exhibit less sensitive TSS (typically a 3dB reduction)
- The temperature performance of the zero bias schottky is poor when operating at low input power levels.

