

ACSP-2656

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 or for optimized narrow bands



Specifications:

Parameter	Specification	Units
Frequency Range (min)	1 – 6	GHz
Sensitivity (min)	2000	mV/mW
Flatness vs. Frequency (max)	0.5	±dB
Typical TSS	-53	dBm
Nominal Video Capacitance	12	pF

Notes:

Maximum input power: +20 dBm

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

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

Standard bias is 100 uA.

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

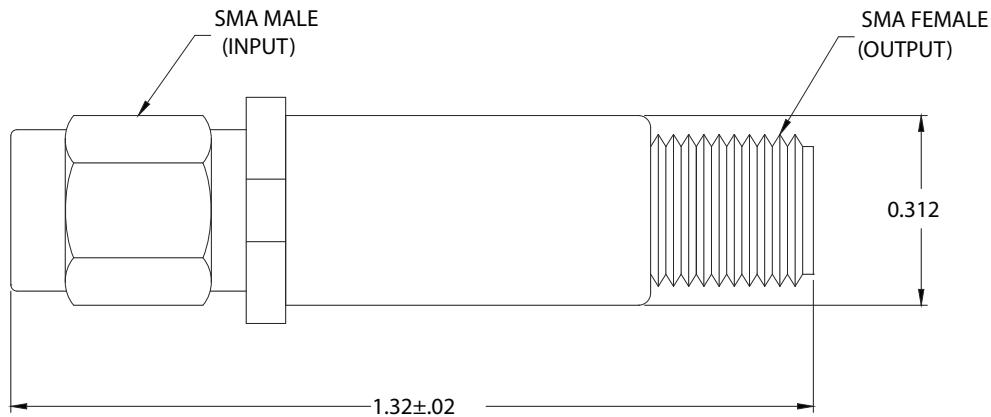
Constant Acceleration per MIL-STD-883, Method 2001

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

Leak Test per MIL-STD-883, Method 1014

External Visual per MIL-STD-883, Method 2009

Outline Drawing:



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-2656N)
- Add "Z" for zero biased schottky option (Ex: ACSP-2656NZ)
- Add desired case style suffix: "C3" (Ex: ACSP-2656NZC3)
- Add "R" suffix: Reverse Connector Configuration (Ex: ACSP-2656NZC3R)
(SMA Female Input/SMA Male Output)
- Add "-RC" suffix: RoHS-compliant (Ex: ACSP-2656NZC3R-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.

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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.