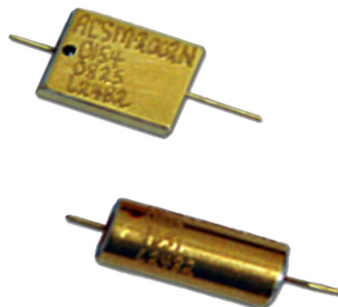


ACSM-2002

Schottky Diode Module 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)	2 – 4	GHz
Sensitivity (min)	2000	mV/mW
Flatness vs. Frequency (max)	0.4	±dB
Typical TSS	-53	dBm
Nominal Video Capacitance	20	pF

Notes:

Maximum input power: +20 dBm

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

Standard bias is 100 uA.

Video capacitance is used for RF bypass. This value can be changed if required for video response time. Contact the factory for more information.

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

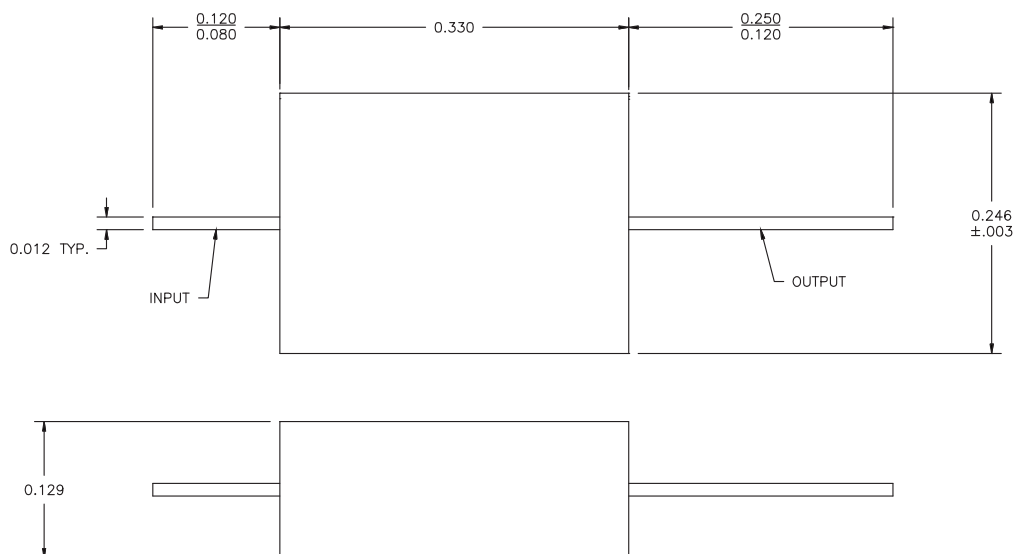
Constant Acceleration per MIL-STD-883,
Method 2001

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 M12
(Optional Case Styles – M34, M35, M47)

Part Number Ordering Information:

- Add desired polarity suffix: "N" for Negative, "P" for Positive (Ex: ACSM-2002N)
- Add "Z" for zero biased schottky option (Ex: ACSM-2002NZ)
- Add case style suffix: "M51" (Ex: ACSM-2002NZM51)
- Add "-RC" suffix: RoHS-compliant (Ex: ACSM-2002NZM51-RC)

Notes (Continued):

- 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 3 dB 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.