

# ACSP-2034

## Bolt Channel 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



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### Specifications:

Parameter	Specification	Units
Frequency Range (min)	12 – 18	GHz
Sensitivity (min)	1800	mV/mW
Flatness vs. Frequency (max)	0.75	±dB
Typical TSS	-51	dBm
Nominal Video Capacitance	12	pF

### Notes:

Maximum input power: +20dBm

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

Standard bias is 100uA.

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

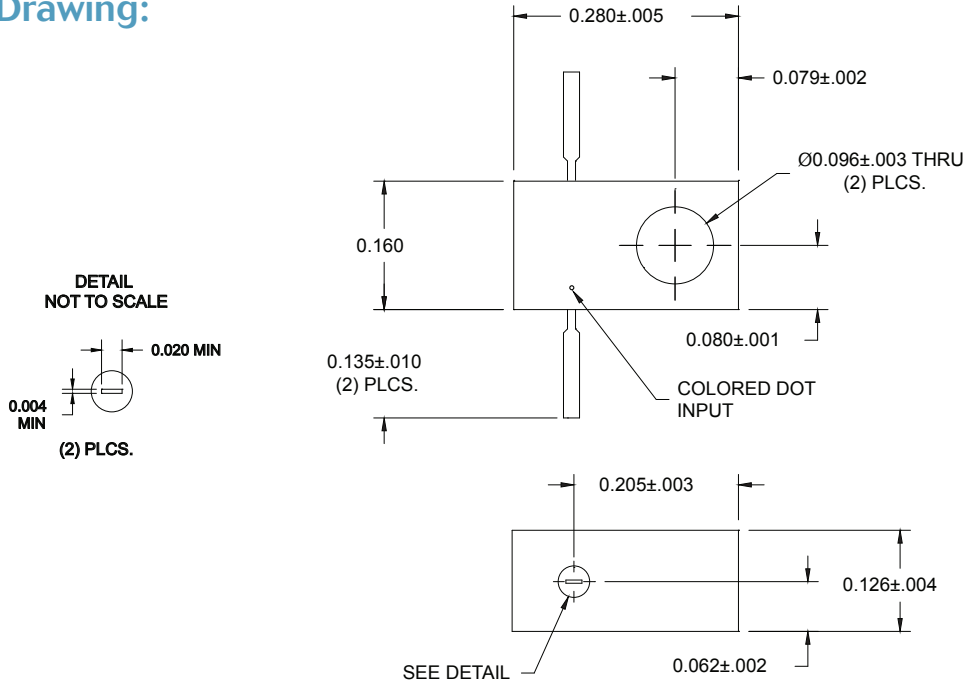
Leak Test per MIL-STD-883, Method 1014

External Visual per MIL-STD-883, Method 2009

**AEROFLEX**  
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Revision Date: 2/23/2011



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

### Part Number Ordering Information:

- Add desired polarity suffix: "N" for Negative, "P" for Positive (Ex: ACSM-2034N)
- Add "Z" for zero biased schottky option (Ex: ACSM-2034NZ)
- Add case style suffix: "M51" (Ex: ACSM-2034NZM51)
- Add "-RC" suffix: RoHS-compliant (Ex: ACSM-2034NZM51-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 3dB reduction)
- The temperature performance of the zero bias schottky is poor when operating at low input power levels.

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