



# ACSP-2551

## PADDED ZERO BIAS SCHOTTKYDETECTORS

|                              |            |       |
|------------------------------|------------|-------|
| Frequency Range (min)        | 0.01 – 18  | GHz   |
| Flatness vs. Frequency (max) | 0.5/octave | ±dB   |
| Typical TSS                  | -44        | dBm   |
| Internal Attenuation         | 7          | dB    |
| Sensitivity (min)            | 400        | mV/mW |

### 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:

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

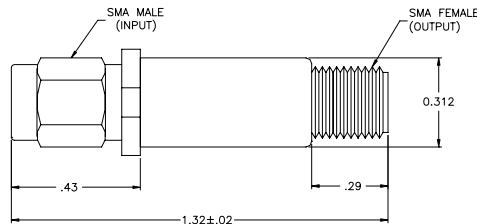
Temperature Cycle per MIL-STD-883, Method 1010

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 – C15, C32)

### PART NUMBER ORDERING INFORMATION:

- Add desired polarity suffix: "N" for Negative, "P" for Positive (Ex: ACSP-2551N)
- Add "Z" for zero biased schottky (Ex: ACSP-2551NZ)
- Add desired case style suffix: "C3" (Ex: ACSP-2551NZC3)
- Add "R" suffix: Reverse Connector Configuration (Ex: ACLM-2551NZC3R) (SMA Female Input/SMA Male Output)
- Add "-RC" suffix: RoHS-compliant (Ex: ACSP-2551NZC3-RC)