

# ACSP-2663

## Padded Zero Bias 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



### Specifications:

| Parameter                    | Specification | Units |
|------------------------------|---------------|-------|
| Frequency Range (min)        | 0.01 – 12.4   | GHz   |
| Flatness vs. Frequency (max) | 0.5/octave    | ±dB   |
| Typical TSS                  | -45           | dBm   |
| Internal Attenuation         | 6             | dB    |
| Sensitivity (min)            | 500           | mV/mW |

### Notes:

Maximum input power: +23 dBm

Sensitivity is measured into an open circuit load ( $>10k\ \Omega$ ).

The temperature performance of the zero Bias schottky is poor when operating at low input power levels.

### 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

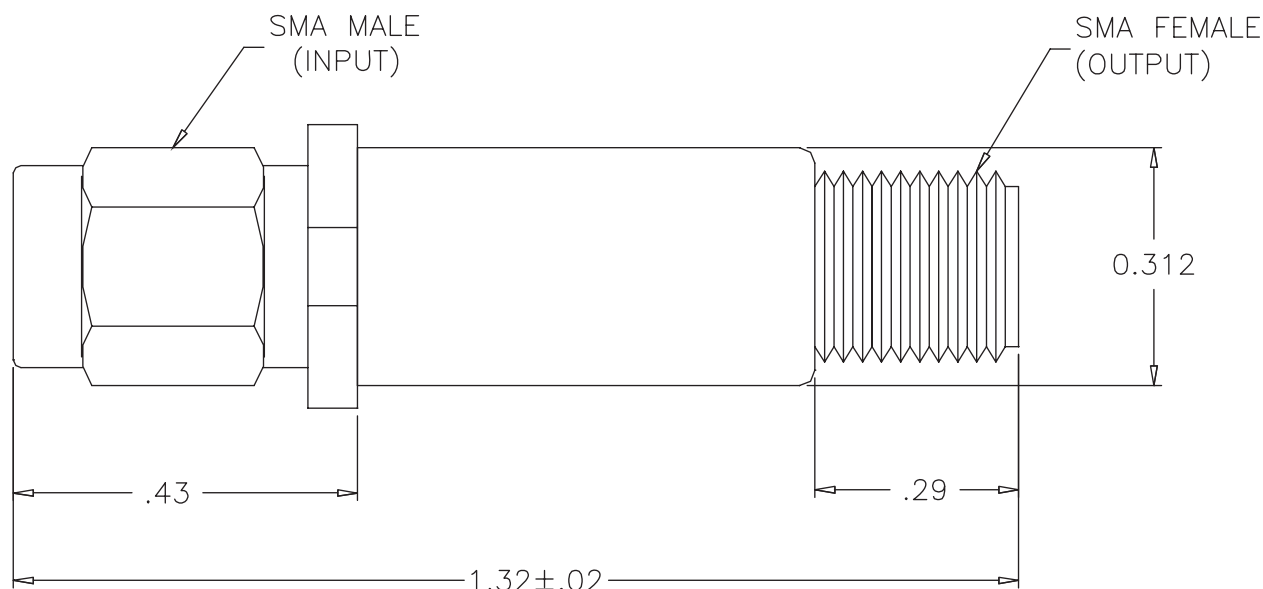
Constant Acceleration per MIL-STD-883, Method 2001

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 – C15, C32)

## Part Number Ordering Information:

- Add desired polarity suffix: "N" for Negative, "P" for Positive (Ex: ACSP-2663N)
- Add "Z" for zero Biased schottky (Ex: ACSP-2663NZ)
- Add desired case style suffix: "C3" (Ex: ACSP-2663NZC3)
- Add "-RC" suffix: RoHS-compliant (Ex: ACSP-2663NZC3-RC)

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