# ACTP-1504 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)	8 – 12	GHz
Sensitivity (min)	700	mV/mW
Flatness vs. Frequency (max)	0.4	±dB
Typical TSS	-50	dBm
Typical VSWR	2.4:1	Ratio
Nominal Video Capacitance	9	pF

#### **Notes:**

Maximum input power: +14dBm (3dB guardband for +17dBm possible burnout)

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

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

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

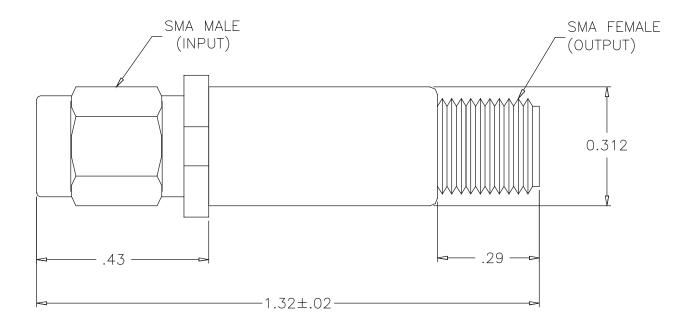
Burn-in per MIL-STD-883, Method 1015 Leak Test per MIL-STD-883, Method 1014 External Visual per MIL-STD-883, Method 2009



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STANDARD CASE STYLE C3 (Optional Case Styles – C8, C15, C32)

# **Part Number Ordering Information:**

- Add desired polarity suffix: "N" for Negative, "P" for Positive (Ex: ACTP-1504N)
- Add desired case style suffix: "C3" (Ex: ACTP-1504NC3)
- Add "R" suffix: Reverse Connector Configuration (Ex: ACTP-1504NC3R) (SMA Female Input/SMA Male Output)
- Add "-RC" suffix: RoHS-compliant (Ex: ACTP-1504NZC3-RC)

#### **Aeroflex Control Components**

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