## ACTP-1796 High Frequency Tunnel 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)	18 - 30	GHz
Flatness v.s. Frequency	4	dB
Minimum Output Voltage	0.5	mV

### **Notes:**

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

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

## **Environmental Specifications:**

Designed to meet:

MIL-E-5400, MIL-STD-202, MIL-E-16400 Operating Temp:  $-55^{\circ}$ C to  $+125^{\circ}$ C

Storage Temp:  $-65^{\circ}$ C to  $+150^{\circ}$ 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):

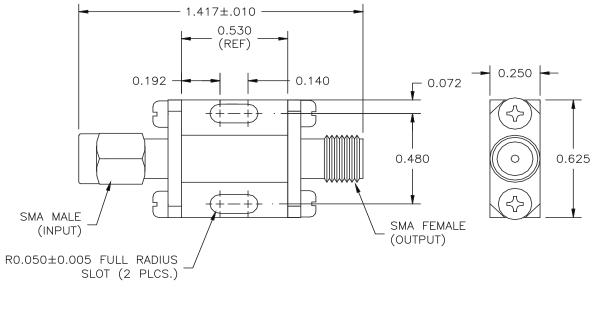
Stabilization Bake per MIL-STD-883, Method 1008 Temperature Cycle per MIL-STD-883, Method 1010 Constant Acceleration per MIL-STD-883, Method 2001

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 C36 (Optional Case Styles – C37, M61)

## **Part Number Ordering Information:**

- Add desired polarity suffix: "N" for Negative, "P" for Positive (Ex: ACTP-1796N)
- Add desired case style suffix: "C36" (Ex: ACTP-1796NC36)
- Add "R" suffix: Reverse Connector Configuration (Ex: ACTP-1796NC36R) (SMA Female Input/SMA Male Output)
- Add "-RC" suffix: RoHS-compliant (Ex: ACTP-1796NC36 -RC)

#### **Aeroflex Control Components**

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