



ACTM-1007 TUNNEL DIODE DETECTOR MODULES

Frequency Range (min)	2 – 8	GHz
Sensitivity (min)	750	mV/mW
Flatness vs. Frequency (max)	0.5	±dB
Typical TSS	-50	dBm
Typical VSWR	2.5:1	Ratio
Nominal Video Capacitance	20	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:

MIL-E-5400, MIL-STD-202, MIL-E-16400

Operating Temp: -55°C to +100°C

Storage Temp: -65°C to +100°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

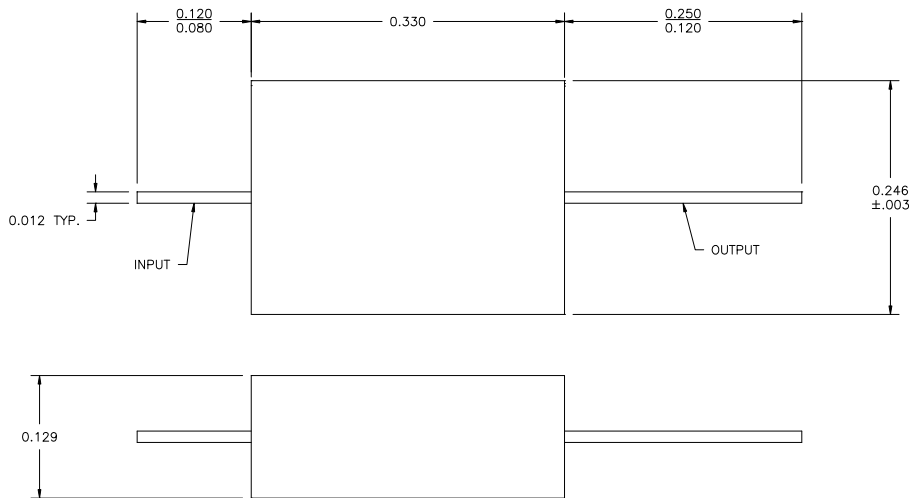
Temperature Cycle per MIL-STD-883, Method 1010

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 M12
(Optional Case Styles – M51)**

PART NUMBER ORDERING INFORMATION:

- Add desired polarity suffix: "N" for Negative, "P" for Positive (Ex: ACTM-1007N)
- Add desired case style suffix: "M22" (Ex: ACTM-1007NM12)
- Add "-RC" suffix: RoHS-compliant (Ex: ACTM-1007NM12-RC)