



ACTM-1013

TUNNEL DIODE DETECTOR MODULES

Frequency Range (min)	1 – 2	GHz
Sensitivity (min)	850	mV/mW
Flatness vs. Frequency (max)	0.2	±dB
Typical TSS	-51	dBm
Typical VSWR	1.9:1	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:

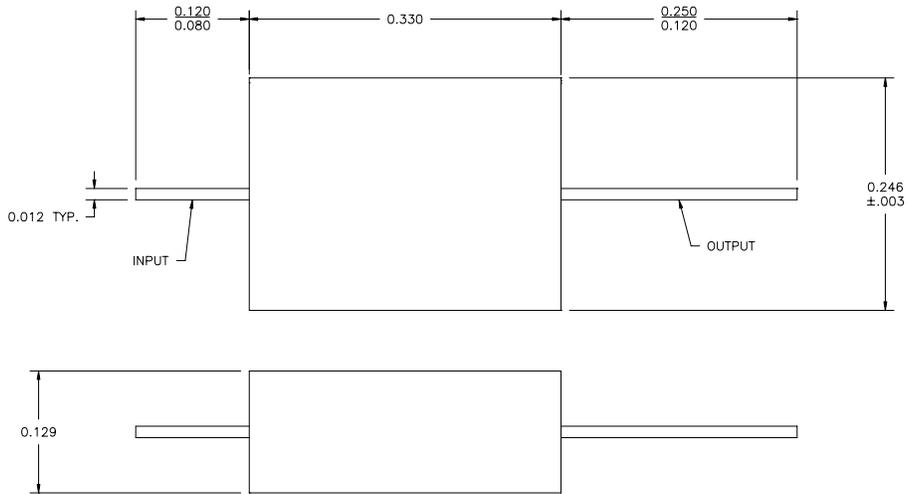
MIL-E-5400, MIL-STD-202, MIL-E-16400
 Operating Temp: -55°C to +100°C
 Storage Temp: -65°C to +100°C
 Humidity: MIL-STD-202F, M103, Cond B
 Shock: MIL-STD-202F, M213, Cond B
 Altitude: MIL-STD-202F, M105, Cond B
 Vibration : MIL-STD-202F, M204, Cond B
 Thermal Shock: MIL-STD-202F, M107, Cond A
 Temperature 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 – M35, M35, M47, M51)

PART NUMBER ORDERING INFORMATION:

- Add desired polarity suffix: "N" for Negative, "P" for Positive (Ex: ACSP-1013N)
- Add desired case style suffix: "M22" (Ex: ACSP-1013NM12)
- Add "-RC" suffix: RoHS-compliant (Ex: ACSP-1013NM12-RC)