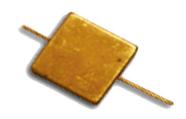
ACTM-1020

Tunnel Diode Detector Modules

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)	0.5 – 18	GHz
Sensitivity (min)	600	mV/mW
Flatness vs. Frequency (max)	1.25	±dB
Typical TSS	-49	dBm
Typical VSWR	3.3:1	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:

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

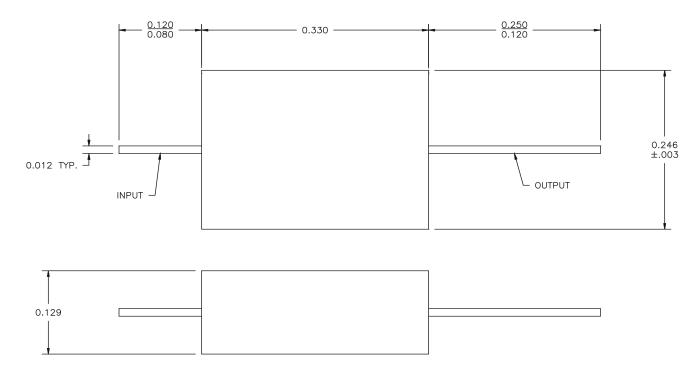
Burn-in per MIL-STD-883, Method 1015 Leak Test per MIL-STD-883, Method 1014 External Visual per MIL-STD-883, Method 2009



40 Industrial Way East, Eatontown , NJ 07724 [USA] Phone: (732) 460-0212. Fax: (732) 460-0214

www.aeroflex.com/acc, email: acc-sales@aeroflex.com





STANDARD CASE STYLE M12

Part Number Ordering Information:

- Add desired polarity suffix: "N" for Negative, "P" for Positive (Ex: ACTM-1020N)
- Add desired case style suffix: "M22" (Ex: ACTM-1020NM12)
- Add "-RC" suffix: RoHS-compliant (Ex: ACTM-1020NM12-RC)

Aeroflex Control Components

Aeroflex Microelectronic Solutions 40 Industrial Way East

Eatontown , NJ 07724 [USA]

Fax: (732) 460-0214

Sales

Phone: (732) 460-0212 ACC-sales@aeroflex.com

www.aeroflex.com/Microwave www.aeroflex.com/ACC

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Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.