
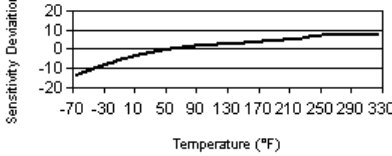


Model Number 356A15	ACCELEROMETER, ICP[®], TRIAXIAL		Revision R ECN #: 27623				
Performance Sensitivity (±10 %) 100 mV/g Measurement Range ±50 g pk Frequency Range (±5 %) 2 to 5000 Hz Frequency Range (±10 %) 1.4 to 6500 Hz Resonant Frequency ≥25 kHz Broadband Resolution (1 to 10000 Hz) 0.0002 g rms Non-Linearity ≤1 % Transverse Sensitivity ≤5 %	ENGLISH 100 mV/g ±50 g pk 2 to 5000 Hz 1.4 to 6500 Hz ≥25 kHz 0.0002 g rms ≤1 % ≤5 %	SI 10.2 mV/(m/s ²) ±490 m/s ² pk 2 to 5000 Hz 1.4 to 6500 Hz ≥25 kHz 0.002 m/s ² rms ≤1 % ≤5 %	Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.) A - Adhesive Mount Supplied Accessory: Model 080A109 Petro Wax Supplied Accessory: Model 080A90 Quick bond Gel (for use with accelerometer adhesive mtg bases to fill gaps on rough surfaces) HT - High temperature, extends normal operation temperatures Frequency Range (±5 %) 10 to 5000 Hz 10 to 5000 Hz Frequency Range (±10 %) 7 to 6500 Hz 7 to 6500 Hz Broadband Resolution (1 to 10000 Hz) 0.0005 g rms 0.005 µm/sec ² rms Temperature Range (Operating) -65 to +325 °F -54 to +163 °C Excitation Voltage 24 to 30 VDC 24 to 30 VDC Output Bias Voltage 7 to 16 VDC 7 to 16 VDC Discharge Time Constant 0.03 to 0.1 sec 0.03 to 0.1 sec Spectral Noise (1 Hz) 110 µg/√Hz 1080 (µm/sec ² /√Hz) Spectral Noise (10 Hz) 50 µg/√Hz 491 (µm/sec ² /√Hz) Spectral Noise (100 Hz) 30 µg/√Hz 294 (µm/sec ² /√Hz) Spectral Noise (1 kHz) 10 µg/√Hz 98.1 (µm/sec ² /√Hz)				
Environmental Overload Limit (Shock) ±7000 g pk Temperature Range (Operating) -65 to +250 °F Temperature Response See Graph Base Strain Sensitivity 0.001 g/µε	±7000 g pk -65 to +250 °F See Graph 0.001 g/µε	±68600 m/s ² pk -54 to +121 °C See Graph 0.01 (m/s ²)/µε	[1] [4] [3] [1] [1]				
Electrical Excitation Voltage 20 to 30 VDC Constant Current Excitation 2 to 20 mA Output Impedance ≤200 ohm Output Bias Voltage 8 to 12 VDC Discharge Time Constant 0.2 to 0.8 sec Settling Time (within 10% of bias) <5 sec Spectral Noise (1 Hz) 80 µg/√Hz Spectral Noise (10 Hz) 15 µg/√Hz Spectral Noise (100 Hz) 5 µg/√Hz Spectral Noise (1 kHz) 2 µg/√Hz Spectral Noise (10 kHz) 1 µg/√Hz	20 to 30 VDC 2 to 20 mA ≤200 ohm 8 to 12 VDC 0.2 to 0.8 sec <5 sec 80 µg/√Hz 15 µg/√Hz 5 µg/√Hz 2 µg/√Hz 1 µg/√Hz	20 to 30 VDC 2 to 20 mA ≤200 ohm 8 to 12 VDC 0.2 to 0.8 sec <5 sec 785 (µm/sec ² /√Hz) 147 (µm/sec ² /√Hz) 49 (µm/sec ² /√Hz) 20 (µm/sec ² /√Hz) 9.8 (µm/sec ² /√Hz)	[1] [1] [1] [1] [1] J - Ground Isolated Electrical Isolation (Base) >10 ⁸ ohm >10 ⁸ ohm Size (Height x Length x Width) 0.59 in x 0.80 in x 0.55 in 15.0 mm x 20.3 mm x 14.0 mm Weight 0.37 oz 10.5 gm Mounting Adhesive Adhesive				
Physical Sensing Element Ceramic Sensing Geometry Shear Housing Material Titanium Sealing Hermetic Size (Height x Length x Width) 0.55 in x 0.55 in x 0.37 in Weight 0.37 oz Electrical Connector 1/4-28 4-Pin Electrical Connection Position Side Mounting Thread 10-32 Female Mounting Torque 10 to 20 in-lb	Ceramic Shear Titanium Hermetic 0.55 in x 0.55 in x 0.37 in 0.37 oz 1/4-28 4-Pin Side 10-32 Female 10 to 20 in-lb	Ceramic Shear Titanium Hermetic 14.0 mm x 20.3 mm x 14.0 mm 10.5 gm 1/4-28 4-Pin Side 10-32 Female 113 to 225 N-cm	[1] Supplied Accessory: Model 080A109 Petro Wax Supplied Accessory: Model 080A90 Quick bond Gel (for use with accelerometer adhesive mtg bases to fill gaps on rough surfaces) T - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4 TLA - TEDS LMS International - Free Format TLB - TEDS LMS International - Automotive Format TLC - TEDS LMS International - Aeronautical Format TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4 Output Bias Voltage 8.7 to 13.0 VDC 8.7 to 13.0 VDC				
	<p data-bbox="661 1182 997 1201">Typical Sensitivity Deviation vs Temperature</p> 	Notes [1] Typical. [2] TEDS option adds 1.0 VDC to bias voltage. [3] 250° F to 325° F data valid with HT option only. [4] Zero-based, least-squares, straight line method. [5] See PCB Declaration of Conformance PS023 for details. Supplied Accessories 080A109 Petro Wax (1) 080A12 Adhesive Mounting Base (1) 080A90 Quick Bonding Gel (1) 081B05 Mounting Stud (10-32 to 10-32) (1) ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1) M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)					
Entered: BLS	Date:	Engineer: BAM	Date:	Sales: JJB	Date:	Approved: BLS	Spec Number: 10329

All specifications are at room temperature unless otherwise specified.

In the interest of constant product improvement, we reserve the right to change specifications without notice.

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