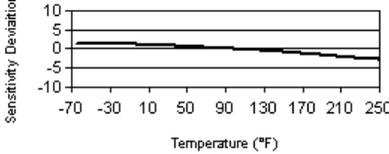


Model Number 353B33	ACCELEROMETER, ICP®			Revision N ECN #: 26810				
Performance Sensitivity (±5 %) Measurement Range Frequency Range (±5 %) Frequency Range (±10 %) Frequency Range (±3 dB) Resonant Frequency Broadband Resolution (1 to 10000 Hz) Non-Linearity Transverse Sensitivity	ENGLISH 100 mV/g ±50 g pk 1 to 4000 Hz 0.7 to 6500 Hz 0.35 to 12000 Hz ≥22 kHz 0.0005 g rms ≤1 % ≤5 %	SI 10.19 mV/(m/s ²) ±491 m/s ² pk 1 to 4000 Hz 0.7 to 6500 Hz 0.35 to 12000 Hz ≥22 kHz 0.005 m/s ² rms ≤1 % ≤5 %	[2] [1] [3] [4]	Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.) B - Low bias electronics [2] Output Bias Voltage 4.5 to 7.5 VDC 4.5 to 7.5 VDC Excitation Voltage 12 to 30 VDC 12 to 30 VDC Constant Current Excitation 1 to 20 mA 1 to 20 mA Measurement Range ±30 g pk ±294 m/s ² pk J - Ground Isolated Frequency Range (±5 %) 1 to 4000 Hz 1 to 4000 Hz Frequency Range (±10 %) 0.7 to 6000 Hz 0.7 to 6000 Hz Resonant Frequency ≥18 kHz ≥18 kHz Electrical Isolation (Base) ≥10 ⁸ Ohm ≥10 ⁸ Ohm				
Environmental Overload Limit (Shock) Temperature Range (Operating) Base Strain Sensitivity	±10000 g pk -65 to +250 °F 0.0002 g/με	±98100 m/s ² pk -54 to +121 °C 0.002 (m/s ²)/με	[1]					
Electrical Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Discharge Time Constant Settling Time (within 10% of bias) Spectral Noise (1 Hz) Spectral Noise (10 Hz) Spectral Noise (100 Hz) Spectral Noise (1 kHz)	18 to 30 VDC 2 to 20 mA ≤100 Ohm 7.5 to 11.5 VDC 0.5 to 2.0 sec <25 sec 320 μg/√Hz 70 μg/√Hz 18 μg/√Hz 6.4 μg/√Hz	18 to 30 VDC 2 to 20 mA ≤100 Ohm 7.5 to 11.5 VDC 0.5 to 2.0 sec <25 sec 3139 (μm/sec ² /√Hz 687 (μm/sec ² /√Hz 177 (μm/sec ² /√Hz 63 (μm/sec ² /√Hz	[1] [1] [1] [1]	Q - Extended discharge time constant [2] Frequency Range (±5 %) 0.1 to 4000 Hz 0.1 to 4000 Hz Frequency Range (±10 %) 0.07 to 6500 Hz 0.07 to 6500 Hz Discharge Time Constant ≥10 sec ≥10 sec Settling Time (within 10% of bias) <120 sec <120 sec Supplied Accessory: Model ACS-4 Single-axis, low frequency phase and amplitude response calibration from 0.5 to 10 Hz W - Water Resistant Cable Electrical Connector Sealed Integral Cable Sealed Integral Cable Electrical Connection Position Side Side Notes [1] Typical. [2] B and Q options supplied with a sensitivity tolerance of ± 10 %. [3] Zero-based, least-squares, straight line method. [4] Transverse sensitivity is typically ≤ 3%. [5] See PCB Declaration of Conformance PS023 for details.				
Physical Size (Height) Weight Sensing Element Size (Hex) Sensing Geometry Housing Material Sealing Electrical Connector Electrical Connection Position Mounting Thread	0.93 in 0.95 oz Quartz 0.75 in Shear Titanium Welded Hermetic 10-32 Coaxial Jack Side 10-32 Female	23.6 mm 27 gm Quartz 19.1 mm Shear Titanium Welded Hermetic 10-32 Coaxial Jack Side 10-32 Female	[1]	Supplied Accessories 080A109 Petro Wax (1) 080A12 Adhesive Mounting Base (1) 081B05 Mounting Stud (10-32 to 10-32) (1) ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1) M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)				
Entered: BLB	Date: 07/10/2007	Engineer: BAM	Date: 07/02/2007	Sales: WDC	Date: 07/02/2007	Approved: BLB	Date: 07/13/2007	Spec Number: 353-2330-80
 [5]	<p style="text-align: center;">Typical Sensitivity Deviation vs Temperature</p> 			 <p>3425 Walden Avenue Depew, NY 14043 UNITED STATES Phone: 800-828-8840 Fax: 716-684-0987 E-mail: info@pcb.com Web site: www.pcb.com</p>				

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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