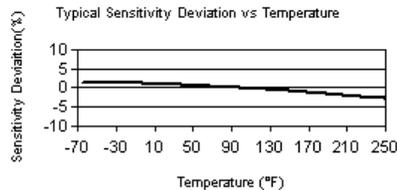


Model Number 353B18	ACCELEROMETER, ICP®		Revision N ECN #: 35369
Performance	ENGLISH	SI	Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)
Sensitivity (±10 %)	10 mV/g	1.02 mV/(m/s ²)	A - Adhesive Mount Supplied Accessory: Model 080A90 Quick bond Gel (for use with accelerometer adhesive mtg bases to fill gaps on rough surfaces) replaces Model 080A15
Measurement Range	±500 g pk	±4905 m/s ² pk	B - Low bias electronics
Frequency Range (±5 %)	1 to 10000 Hz	1 to 10000 Hz	Output Bias Voltage 4.5 to 7.5 VDC 4.5 to 7.5 VDC
Frequency Range (±10 %)	0.7 to 18000 Hz	0.7 to 18000 Hz	Excitation Voltage 12 to 30 VDC 12 to 30 VDC
Frequency Range (±3 dB)	0.35 to 30000 Hz	0.35 to 30000 Hz	Constant Current Excitation 1 to 20 mA 1 to 20 mA
Resonant Frequency	≥70 kHz	≥70 kHz	Measurement Range ±300 g pk ±2943 m/s ² pk
Broadband Resolution (1 to 10000 Hz)	0.005 g rms	0.05 m/s ² rms [1]	J - Ground Isolated
Non-Linearity	≤1 %	≤1 % [2]	Frequency Range (±5 %) 1 to 8000 Hz 1 to 8000 Hz
Transverse Sensitivity	≤5 %	≤5 % [3]	Frequency Range (±10 %) 0.7 to 15000 Hz 0.7 to 15000 Hz
Environmental			Resonant Frequency ≥56 kHz ≥56 kHz
Overload Limit (Shock)	±10000 g pk	±98100 m/s ² pk	Electrical Isolation (Base) ≥10 ⁸ Ohm ≥10 ⁸ Ohm
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C	Size (Hex x Height) 3/8 in x 0.82 in 3/8 in x 20.8 mm [1]
Base Strain Sensitivity	≤0.003 g/με	≤0.03 (m/s ²)/με [1]	Weight 0.10 oz 3.0 gm [1]
Electrical			M - Metric Mount
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	Mounting Thread M3 x 0.50 Male (M3 x 0.50 Male)
Constant Current Excitation	2 to 20 mA	2 to 20 mA	Supplied Accessory: Model M080A15 Metric adhesive base, 0.31" hex x 0.125" thk, M3 x 0.50 thd, aluminum with insulating hardcoat finish replaces Model 080A15
Output Impedance	≤100 Ohm	≤100 Ohm	Q - Extended discharge time constant
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	Frequency Range (±5 %) 0.15 to 10000 Hz 0.15 to 10000 Hz
Discharge Time Constant	0.5 to 2.0 sec	0.5 to 2.0 sec	Frequency Range (±10 %) 0.1 to 18000 Hz 0.1 to 18000 Hz
Spectral Noise (1 Hz)	2800 μg/√Hz	27468 (μm/sec ²) /√Hz [1]	Discharge Time Constant >5 sec >5 sec
Spectral Noise (10 Hz)	700 μg/√Hz	6867 (μm/sec ²) /√Hz [1]	Settling Time (within 10% of bias) <45 sec <45 sec
Spectral Noise (100 Hz)	180 μg/√Hz	1766 (μm/sec ²) /√Hz [1]	Supplied Accessory: Model ACS-97 Single axis, low frequency phase and amplitude response cal from 1 to 10 Hz
Spectral Noise (1 kHz)	64 μg/√Hz	628 (μm/sec ²) /√Hz [1]	W - Water Resistant Cable
Physical			Electrical Connector Sealed Integral Cable Sealed Integral Cable
Size (Height)	0.74 in	18.8 mm	Electrical Connection Position Top Top
Weight	0.06 oz	1.8 gm [1]	
Sensing Element	Quartz	Quartz	
Size (Hex)	9/32 in	9/32 in	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Top	Top	
Mounting Thread	5-40 Male	5-40 Male	
Mounting Torque	8 to 12 in-lb	90 to 135 N-cm	
			Notes
			[1] Typical.
			[2] Zero-based, least-squares, straight line method.
			[3] Transverse sensitivity is typically ≤= 3%.
			[4] See PCB Declaration of Conformance PS023 for details.
			Supplied Accessories
			080A109 Petro Wax (1)
			080A15 Adhesive Mounting Base (1)
			ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)
			Entered: BAM Engineer: WDC Sales: ECB Spec Number:
			Date: 03/25/2011 Date: 03/25/2011 Date: 03/25/2011 353-2180-80
			PCB PIEZOTRONICS® 3425 Walden Avenue Depew, NY 14043 UNITED STATES Phone: 800-828-8840 Fax: 716-684-0987



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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