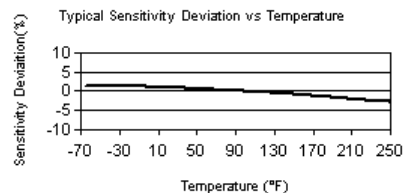


Model Number 353B03	ACCELEROMETER, ICP®			Revision G ECN #: 35369
Performance	ENGLISH	SI	Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)	
Sensitivity (±5 %)	10 mV/g	1.02 mV/(m/s²)		
Measurement Range	±500 g pk	±4905 m/s² pk	B - Low bias electronics	
Frequency Range (±5 %)	1 to 7000 Hz	1 to 7000 Hz	Output Bias Voltage	4.5 to 7.5 VDC 4.5 to 7.5 VDC
Frequency Range (±10 %)	0.7 to 11000 Hz	0.7 to 11000 Hz	Excitation Voltage	12 to 30 VDC 12 to 30 VDC
Frequency Range (±3 dB)	0.35 to 20000 Hz	0.35 to 20000 Hz	Constant Current Excitation	1 to 20 mA 1 to 20 mA
Resonant Frequency	≥38 kHz	≥38 kHz	Measurement Range	±300 g pk ±2943 m/s² pk
Broadband Resolution (1 to 10000 Hz)	0.003 g rms	0.03 m/s² rms	J - Ground Isolated	
Non-Linearity	≤1 %	≤1 %	Frequency Range (±5 %)	1 to 5000 Hz 1 to 5000 Hz
Transverse Sensitivity	≤5 %	≤5 %	Frequency Range (±10 %)	0.7 to 9000 Hz 0.7 to 9000 Hz
Environmental			Resonant Frequency	≥22 kHz ≥22 kHz
Overload Limit (Shock)	±10000 g pk	±98100 m/s² pk	Electrical Isolation (Base)	≥10⁸ ohm ≥10⁸ ohm
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C	Q - Extended discharge time constant	
Temperature Response	See Graph	See Graph	Frequency Range (±5 %)	0.1 to 7000 Hz 0.1 to 7000 Hz
Base Strain Sensitivity	≤0.0005 g/με	≤0.005 (m/s²)/με	Frequency Range (±10 %)	0.07 to 11000 Hz 0.07 to 11000 Hz
Electrical			Discharge Time Constant	>10 sec >10 sec
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	Settling Time (within 10% of bias)	45 sec 45 sec
Constant Current Excitation	2 to 20 mA	2 to 20 mA	Supplied Accessory: Model ACS-4 Single-axis, low frequency phase and amplitude response calibration from 0.5 to 10 Hz	
Output Impedance	≤100 ohm	≤100 ohm	W - Water Resistant Cable	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	Electrical Connector	Sealed Integral Cable Sealed Integral Cable
Discharge Time Constant	0.5 to 2.6 sec	0.5 to 2.6 sec	Electrical Connection Position	Side Side
Settling Time (within 10% of bias)	<5 sec	<5 sec	Notes	
Spectral Noise (1 Hz)	2800 μg/√Hz	27468 (μm/sec²)/√Hz	[1] Typical.	
Spectral Noise (10 Hz)	700 μg/√Hz	6867 (μm/sec²)/√Hz	[2] B and Q options supplied with a sensitivity tolerance of ± 10 %.	
Spectral Noise (100 Hz)	180 μg/√Hz	1766 (μm/sec²)/√Hz	[3] Zero-based, least-squares, straight line method.	
Spectral Noise (1 kHz)	64 μg/√Hz	628 (μm/sec²)/√Hz	[4] Transverse sensitivity is typically ≤= 3%.	
Physical			[5] See PCB Declaration of Conformance PS023 for details.	
Sensing Element	Quartz	Quartz	Supplied Accessories	
Sensing Geometry	Shear	Shear	080A Adhesive Mounting Base (1)	
Housing Material	Titanium	Titanium	080A109 Petro Wax (1)	
Sealing	Welded Hermetic	Welded Hermetic	081B05 Mounting Stud (10-32 to 10-32) (1)	
Size (Hex x Height)	0.50 in x 0.81 in	12.7 mm x 20.6 mm	ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)	
Weight	0.38 oz	10.5 gm	M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack		
Electrical Connection Position	Side	Side		
Mounting Thread	10-32 Female	10-32 Female		



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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3425 Walden Avenue
Depew, NY 14043
UNITED STATES
Phone: 888-684-0013
Fax: 716-685-3886
E-mail: vibration@pcb.com
Web site: www.pcb.com

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