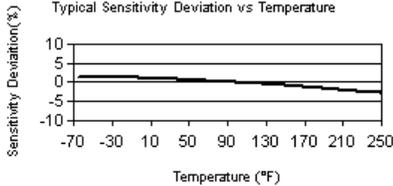


Model Number <b>353B03</b>	<b>ACCELEROMETER, ICP®</b>		Revision G ECN #: 35369																																										
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>	<b>Optional Versions</b> (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)																																										
Sensitivity (±5 %)	10 mV/g	1.02 mV/(m/s <sup>2</sup> )	[2]																																										
Measurement Range	±500 g pk	±4905 m/s <sup>2</sup> pk																																											
Frequency Range (±5 %)	1 to 7000 Hz	1 to 7000 Hz																																											
Frequency Range (±10 %)	0.7 to 11000 Hz	0.7 to 11000 Hz																																											
Frequency Range (±3 dB)	0.35 to 20000 Hz	0.35 to 20000 Hz																																											
Resonant Frequency	≥38 kHz	≥38 kHz																																											
Broadband Resolution (1 to 10000 Hz)	0.003 g rms	0.03 m/s <sup>2</sup> rms	[1]																																										
Non-Linearity	≤1 %	≤1 %	[3]																																										
Transverse Sensitivity	≤5 %	≤5 %	[4]																																										
<b>Environmental</b>																																													
Overload Limit (Shock)	±10000 g pk	±98100 m/s <sup>2</sup> pk																																											
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C																																											
Base Strain Sensitivity	≤0.0005 g/με	≤0.005 (m/s <sup>2</sup> )/με	[1]																																										
<b>Electrical</b>																																													
Excitation Voltage	18 to 30 VDC	18 to 30 VDC																																											
Constant Current Excitation	2 to 20 mA	2 to 20 mA																																											
Output Impedance	≤100 Ohm	≤100 Ohm																																											
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC																																											
Discharge Time Constant	0.5 to 2.6 sec	0.5 to 2.6 sec																																											
Settling Time (within 10% of bias)	<5 sec	<5 sec																																											
Spectral Noise (1 Hz)	2800 μg/√Hz	27468 (μm/sec <sup>2</sup> )/√Hz	[1]																																										
Spectral Noise (10 Hz)	700 μg/√Hz	6867 (μm/sec <sup>2</sup> )/√Hz	[1]																																										
Spectral Noise (100 Hz)	180 μg/√Hz	1766 (μm/sec <sup>2</sup> )/√Hz	[1]																																										
Spectral Noise (1 kHz)	64 μg/√Hz	628 (μm/sec <sup>2</sup> )/√Hz	[1]																																										
<b>Physical</b>																																													
Size (Height)	0.81 in	20.6 mm																																											
Weight	0.38 oz	10.5 gm	[1]																																										
Sensing Element	Quartz	Quartz																																											
Size (Hex)	0.50 in	12.7 mm																																											
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	Side	Side																																											
Mounting Thread	10-32 Female	10-32 Female																																											
			<p><b>Optional Versions</b></p> <p><b>B - Low bias electronics</b></p> <table border="1"> <tr> <td>Output Bias Voltage</td> <td>4.5 to 7.5 VDC</td> <td>4.5 to 7.5 VDC</td> </tr> <tr> <td>Excitation Voltage</td> <td>12 to 30 VDC</td> <td>12 to 30 VDC</td> </tr> <tr> <td>Constant Current Excitation</td> <td>1 to 20 mA</td> <td>1 to 20 mA</td> </tr> <tr> <td>Measurement Range</td> <td>±300 g pk</td> <td>±2943 m/s<sup>2</sup> pk</td> </tr> </table> <p><b>J - Ground Isolated</b></p> <table border="1"> <tr> <td>Frequency Range (±5 %)</td> <td>1 to 5000 Hz</td> <td>1 to 5000 Hz</td> </tr> <tr> <td>Frequency Range (±10 %)</td> <td>0.7 to 9000 Hz</td> <td>0.7 to 9000 Hz</td> </tr> <tr> <td>Resonant Frequency</td> <td>≥22 kHz</td> <td>≥22 kHz</td> </tr> <tr> <td>Electrical Isolation (Base)</td> <td>≥10<sup>8</sup> Ohm</td> <td>≥10<sup>8</sup> Ohm</td> </tr> </table> <p><b>Q - Extended discharge time constant</b></p> <table border="1"> <tr> <td>Frequency Range (±5 %)</td> <td>0.1 to 7000 Hz</td> <td>0.1 to 7000 Hz</td> </tr> <tr> <td>Frequency Range (±10 %)</td> <td>0.07 to 11000 Hz</td> <td>0.07 to 11000 Hz</td> </tr> <tr> <td>Discharge Time Constant</td> <td>&gt;10 sec</td> <td>&gt;10 sec</td> </tr> <tr> <td>Settling Time (within 10% of bias)</td> <td>45 sec</td> <td>45 sec</td> </tr> </table> <p>Supplied Accessory: Model ACS-4 Single-axis, low frequency phase and amplitude response calibration from 0.5 to 10 Hz</p> <p><b>W - Water Resistant Cable</b></p> <table border="1"> <tr> <td>Electrical Connector</td> <td>Sealed Integral Cable</td> <td>Sealed Integral Cable</td> </tr> <tr> <td>Electrical Connection Position</td> <td>Side</td> <td>Side</td> </tr> </table> <p><b>Notes</b></p> <p>[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.</p> <p><b>Supplied Accessories</b></p> <p>080A Adhesive Mounting Base (1)  080A109 Petro Wax (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)</p>	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	±300 g pk	±2943 m/s <sup>2</sup> pk	Frequency Range (±5 %)	1 to 5000 Hz	1 to 5000 Hz	Frequency Range (±10 %)	0.7 to 9000 Hz	0.7 to 9000 Hz	Resonant Frequency	≥22 kHz	≥22 kHz	Electrical Isolation (Base)	≥10 <sup>8</sup> Ohm	≥10 <sup>8</sup> Ohm	Frequency Range (±5 %)	0.1 to 7000 Hz	0.1 to 7000 Hz	Frequency Range (±10 %)	0.07 to 11000 Hz	0.07 to 11000 Hz	Discharge Time Constant	>10 sec	>10 sec	Settling Time (within 10% of bias)	45 sec	45 sec	Electrical Connector	Sealed Integral Cable	Sealed Integral Cable	Electrical Connection Position	Side	Side
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<p><i>All specifications are at room temperature unless otherwise specified.</i></p> <p>In the interest of constant product improvement, we reserve the right to change specifications without notice.</p> <p>ICP® is a registered trademark of PCB group, Inc.</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>																																											

