
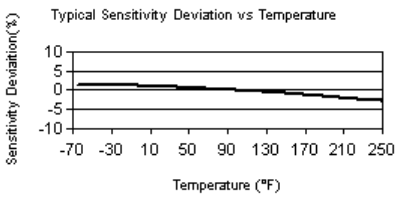



Model Number 353B34	<b>ACCELEROMETER, ICP®</b>		Revision M ECN #: 26810										
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>	<b>Optional Versions</b> (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)										
Sensitivity (±5 %)	100 mV/g	10.19 mV/(m/s <sup>2</sup> )	<b>B - Low bias electronics</b> [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 <sup>2</sup> pk										
Measurement Range	±50 g pk	±491 m/s <sup>2</sup> pk	<b>J - Ground Isolated</b> Frequency Range (±5 %) 1 to 4000 Hz 1 to 4000 Hz Frequency Range (±10 %) 0.7 to 7000 Hz 0.7 to 7000 Hz Resonant Frequency ≥18 kHz ≥18 kHz Electrical Isolation (Base) ≥10 <sup>8</sup> Ohm ≥10 <sup>8</sup> Ohm										
Frequency Range (±5 %)	1 to 4000 Hz	1 to 4000 Hz											
Frequency Range (±10 %)	0.7 to 7000 Hz	0.7 to 7000 Hz											
Frequency Range (±3 dB)	0.35 to 12000 Hz	0.35 to 12000 Hz											
Resonant Frequency	≥22 kHz	≥22 kHz											
Broadband Resolution (1 to 10000 Hz)	0.0005 g rms	0.005 m/s <sup>2</sup> rms											
Non-Linearity	≤1 %	≤1 %											
Transverse Sensitivity	≤5 %	≤5 %											
<b>Environmental</b>			<b>Q - Extended discharge time constant</b> [2] Frequency Range (±5 %) 0.1 to 4000 Hz 0.1 to 4000 Hz Frequency Range (±10 %) 0.07 to 7000 Hz 0.07 to 7000 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										
Overload Limit (Shock)	±10000 g pk	±98100 m/s <sup>2</sup> pk	<b>W - Water Resistant Cable</b> Electrical Connector Sealed Integral Cable Sealed Integral Cable Electrical Connection Position Top Top										
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C											
Base Strain Sensitivity	0.0002 g/με	0.002 (m/s <sup>2</sup> )/με											
<b>Electrical</b>			<b>Notes</b> [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.										
Excitation Voltage	20 to 30 VDC	20 to 30 VDC											
Constant Current Excitation	2 to 20 mA	2 to 20 mA											
Output Impedance	≤100 Ohm	≤100 Ohm											
Output Bias Voltage	7.5 to 11.5 VDC	7.5 to 11.5 VDC											
Discharge Time Constant	0.5 to 2.0 sec	0.5 to 2.0 sec											
Settling Time (within 10% of bias)	<25 sec	<25 sec											
Spectral Noise (1 Hz)	320 μg/&#8730;Hz	3139 (μm/sec <sup>2</sup> /&#8730;Hz)											
Spectral Noise (10 Hz)	70 μg/&#8730;Hz	687 (μm/sec <sup>2</sup> /&#8730;Hz)											
Spectral Noise (100 Hz)	18 μg/&#8730;Hz	177 (μm/sec <sup>2</sup> /&#8730;Hz)											
Spectral Noise (1 kHz)	6.4 μg/&#8730;Hz	63 (μm/sec <sup>2</sup> /&#8730;Hz)											
<b>Physical</b>			<b>Supplied Accessories</b> 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)										
Size (Height)	1.26 in	32.0 mm											
Weight	0.96 oz	27 gm											
Sensing Element	Quartz	Quartz											
Size (Hex)	0.75 in	19.1 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	Top	Top											
Mounting Thread	10-32 Female	10-32 Female											
			<table border="1" data-bbox="1123 1128 2016 1209"> <tr> <td>Entered: BLB</td> <td>Engineer: BAM</td> <td>Sales: WDC</td> <td>Approved: BLB</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 07/10/2007</td> <td>Date: 07/02/2007</td> <td>Date: 07/02/2007</td> <td>Date: 07/13/2007</td> <td>353-2340-80</td> </tr> </table>	Entered: BLB	Engineer: BAM	Sales: WDC	Approved: BLB	Spec Number:	Date: 07/10/2007	Date: 07/02/2007	Date: 07/02/2007	Date: 07/13/2007	353-2340-80
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			 [5]										
													
			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										

*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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