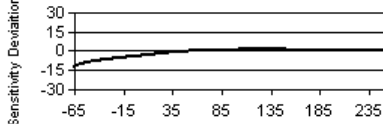



Model Number 621B40	<b>VERY HIGH FREQUENCY ICP® ACCELEROMETER</b>			Revision L ECN #: 24100													
<b>Performance</b> Sensitivity (±10 %) Measurement Range Frequency Range (±10 %)  Frequency Range (±3 dB) Resonant Frequency Broadband Resolution (1 to 10000 Hz) Non-Linearity Transverse Sensitivity	<b>ENGLISH</b> 10 mV/g ±500 g 204 to 1080000 cpm 96 to 1800000 cpm 5100 kcpm 1.2 mg rms ±1 % ≤5 %	<b>SI</b> 1.02 mV/(m/s <sup>2</sup> ) ±4905 m/s <sup>2</sup> 3.4 to 18000 Hz 1.6 to 30000 Hz 85 kHz 1176 µm/sec <sup>2</sup> ±1 % ≤5 %	[2] [3][4] [3][4] [1][5] [1] [6]	<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.) <b>M</b> - Metric Mount  <b>Notes</b> [1] Typical value. [2] Conversion Factor 1g = 9.81 m/s <sup>2</sup> . [3] The high frequency tolerance is accurate within ±10% of the specified frequency. [4] Frequency response with adhesive base. [5] Mounted resonance (nominal) without magnet. [6] Zero-based, least-squares, straight line method. [7] See PCB Declaration of Conformance PS023 for details.													
<b>Environmental</b> Overload Limit (Shock) Temperature Range	10000 g pk -65 to +250 °F	98100 m/s <sup>2</sup> pk -54 to +121 °C															
<b>Electrical</b> Settling Time (within 1% of bias) Discharge Time Constant Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Spectral Noise (10 Hz) Spectral Noise (100 Hz) Spectral Noise (1 kHz)	≤3.0 sec ≥0.1 sec 18 to 28 VDC 2 to 20 mA <100 Ohm 8 to 12 VDC 100 µg/√Hz 30 µg/√Hz 10 µg/√Hz	≤3.0 sec ≥0.1 sec 18 to 28 VDC 2 to 20 mA <100 Ohm 8 to 12 VDC 980 (µm/sec <sup>2</sup> /√Hz) 294 (µm/sec <sup>2</sup> /√Hz) 98.1 (µm/sec <sup>2</sup> /√Hz)	[1] [1] [1]	<b>Supplied Accessories</b> ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency ()													
<b>Physical</b> Size (Hex x Height) Weight Mounting Thread Mounting Torque Sensing Element Sensing Geometry Housing Material Sealing Electrical Connector Electrical Connection Position	3/8 in x 0.66 in 0.10 oz 5-40 Male 18 to 20 in-lb Ceramic Shear Titanium Welded Hermetic 5-44 Coaxial Jack Top	9.6 mm x 16.8 mm 2.8 gm M3 x 0.50 Male 203 to 226 N-cm Ceramic Shear Titanium Welded Hermetic 5-44 Coaxial Jack Top															
<p data-bbox="121 1419 777 1442"><i>All specifications are at room temperature unless otherwise specified.</i></p> <p data-bbox="121 1445 1073 1490">In the interest of constant product improvement, we reserve the right to change specifications without notice.</p> <p data-bbox="121 1494 594 1515">ICP® is a registered trademark of PCB group, Inc.</p> <div data-bbox="659 1149 1039 1339"> <p data-bbox="709 1149 995 1169">Typical Sensitivity Deviation vs Temperature</p>  <table border="1" data-bbox="659 1307 1039 1339"> <caption>Approximate data points from the graph</caption> <thead> <tr> <th>Temperature (°F)</th> <th>Sensitivity Deviation (%)</th> </tr> </thead> <tbody> <tr><td>-65</td><td>-15</td></tr> <tr><td>-15</td><td>-10</td></tr> <tr><td>35</td><td>-5</td></tr> <tr><td>85</td><td>0</td></tr> <tr><td>135</td><td>5</td></tr> <tr><td>185</td><td>10</td></tr> <tr><td>235</td><td>15</td></tr> </tbody> </table> </div>	Temperature (°F)	Sensitivity Deviation (%)	-65	-15	-15	-10	35	-5	85	0	135	5	185	10	235	15	
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Entered: JEC Date: 04/19/2006	Engineer: DPS Date: 04/19/2006	Sales: NJF Date: 04/20/2006	Spec Number: <b>9701</b>														
		<p data-bbox="1570 1252 1875 1419">3425 Walden Avenue Depew, NY 14043 UNITED STATES Phone: 716-684-0003 Fax: 716-684-3823 E-mail: imi@pcb.com Web site: www.imi-sensors.com</p>															

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