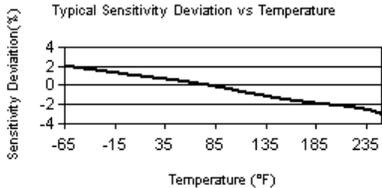


Model Number 627A01	PLATINUM LOW-COST QUARTZ ACCELEROMETER		Revision C ECN #: 14824										
<b>Performance</b> Sensitivity ( $\pm 15\%$ ) Measurement Range Frequency Range ( $\pm 3$ dB) Resonant Frequency Broadband Resolution (1 to 10000 Hz) Non-Linearity Transverse Sensitivity	<b>ENGLISH</b> 100 mV/g $\pm 50$ g 20 to 600000 cpm 1080 kcpm 1000 $\mu$ g $\pm 1\%$ $\leq 5\%$	<b>SI</b> 10.2 mV/(m/s <sup>2</sup> ) $\pm 490$ m/s <sup>2</sup> 0.33 to 10000 Hz 18 kHz 9810 $\mu$ m/sec <sup>2</sup> $\pm 1\%$ $\leq 5\%$	<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 Supplied Accessory: Model M081A61 Mounting stud, 1/4-28 to M6 x 1 replaces Model 081A40 <b>Notes</b> [1] Typical. [2] Conversion Factor 1g = 9.81 m/s <sup>2</sup> . [3] The high frequency tolerance is accurate within $\pm 10\%$ of the specified frequency. [4] Zero-based, least-squares, straight line method. [5] 1/4-28 has no equivalent in S.I. units. [6] See PCB Declaration of Conformance PS023 for details.										
<b>Environmental</b> Overload Limit (Shock) Temperature Range Enclosure Rating	5000 g pk -65 to +250 °F IP68	49050 m/s <sup>2</sup> pk -54 to +121 °C IP68											
<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) Electrical Protection Electrical Isolation (Case)	$\leq 10$ sec $\geq 0.5$ sec 18 to 28 VDC 2 to 20 mA $< 100$ Ohm 8 to 12 VDC 50 $\mu$ g/ $\sqrt{\text{Hz}}$ 20 $\mu$ g/ $\sqrt{\text{Hz}}$ 6 $\mu$ g/ $\sqrt{\text{Hz}}$ RFI/ESD $> 10^8$ Ohm	$\leq 10$ sec $\geq 0.5$ sec 18 to 28 VDC 2 to 20 mA $< 100$ Ohm 8 to 12 VDC 491 ( $\mu$ m/sec <sup>2</sup> )/ $\sqrt{\text{Hz}}$ 196 ( $\mu$ m/sec <sup>2</sup> )/ $\sqrt{\text{Hz}}$ 59 ( $\mu$ m/sec <sup>2</sup> )/ $\sqrt{\text{Hz}}$ RFI/ESD $> 10^8$ Ohm	<b>Supplied Accessories</b> 081A40 Mounting Stud (1)										
<b>Physical</b> Size (Hex x Height) Weight Mounting Thread Mounting Torque Sensing Element Sensing Geometry Housing Material Sealing Electrical Connector Electrical Connection Position	7/8 in x 2.06 in 3.3 oz 1/4-28 Female 2 to 5 ft-lb Quartz Shear Stainless Steel Welded Hermetic 2-Pin MIL-C-5015 Top	22 mm x 52.3 mm 94 gm 1/4-28 Female 2.7 to 6.8 Nm Quartz Shear Stainless Steel Welded Hermetic 2-Pin MIL-C-5015 Top	[2] [3] [1] [1] [4] [5] [5]										
 [6]	 <p>Typical Sensitivity Deviation vs Temperature</p> <p>The graph shows Sensitivity Deviation (%) on the y-axis (ranging from -4 to 4) versus Temperature (°F) on the x-axis (ranging from -85 to 235). The curve shows a linear decrease in sensitivity deviation as temperature increases, starting at approximately 2% at -85°F and reaching approximately -3% at 235°F.</p>		<table border="1" data-bbox="1129 1172 2011 1273"> <tr> <td>Entered: MWS</td> <td>Engineer: MWS</td> <td>Sales: EGY</td> <td>Approved: NJF</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 10/04/2002</td> <td>Date: 10/04/2002</td> <td>Date: 10/09/2002</td> <td>Date: 10/07/2002</td> <td><b>8309</b></td> </tr> </table> <div data-bbox="1138 1295 1524 1396">  <p><b>IMI SENSORS</b> A PCB PIEZOTRONICS DIV.</p> </div> <div data-bbox="1562 1295 1877 1468"> <p>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> </div>	Entered: MWS	Engineer: MWS	Sales: EGY	Approved: NJF	Spec Number:	Date: 10/04/2002	Date: 10/04/2002	Date: 10/09/2002	Date: 10/07/2002	<b>8309</b>
Entered: MWS	Engineer: MWS	Sales: EGY	Approved: NJF	Spec Number:									
Date: 10/04/2002	Date: 10/04/2002	Date: 10/09/2002	Date: 10/07/2002	<b>8309</b>									
<p>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.            ICP® is a registered trademark of PCB group, Inc.</p>													

