



| Model Number<br><b>3713E11200G</b>   |                             | <b>TRIAxIAL DC RESPONSE ACCELEROMETER</b> |        | Revision: C<br>ECN #: 44052  |
|--|-----------------------------|---|--------|--|
| <b>Performance</b>   | <b>ENGLISH</b>              | <b>SI</b>                                 |        | <b>OPTIONAL VERSIONS</b>   |
| Sensitivity(± 3 %)   | 10 mV/g                     | 1 mV/(m/s <sup>2</sup> )                  | [5]    | Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used. |
| Measurement Range  | ± 200 g pk                  | ± 1962.0 m/s <sup>2</sup> pk              |        |  |
| Frequency Range(± 3 dB)  | 0 to 3000 Hz                | 0 to 3000 Hz                              | [2]    |  |
| Frequency Range(± 3 dB)  | 0 to 1500 Hz                | 0 to 1500 Hz                              | [6]    |  |
| Phase Response(100 Hz)   | <10 °                       | <10 °                                     |        |  |
| Broadband Resolution(0.5 to 100 Hz)  | 3 mg rms                    | .03 m/s <sup>2</sup> rms                  | [2]    |  |
| Non-Linearity  | ≤ 1 %                       | ≤ 1 %                                     | [7][4] |  |
| Transverse Sensitivity   | ≤ 5 %                       | ≤ 5 %                                     |        |  |
| <b>Environmental</b>   |                             |   |        |  |
| Overload Limit(Shock)  | ± 5000 g pk                 | ± 49,050 m/s <sup>2</sup> pk              |        |  |
| Temperature Range(Operating)   | -65 to +250 °F              | -54.0 to +121 °C                          |        |  |
| Temperature Range(Storage)   | -65 to +250 °F              | -54.0 to +121 °C                          |        |  |
| Temperature Coefficient of Sensitivity   | ± 3 %                       | ± 3 %                                     | [3]    |  |
| Zero g Offset Temperature Coefficient  | ± 2 % FSO                   | ± 2 % FSO                                 | [3][4] |  |
| Base Strain Sensitivity(Measured at 250 µε)  | .001 g/µε                   | .01 (m/s <sup>2</sup> )/µε                | [2]    |  |
| Magnetic Sensitivity   | 100 µg/gauss                | 9.8 (m/s <sup>2</sup> )/Tesla             | [2]    |  |
| <b>Electrical</b>  |                             |   |        | <b>NOTES:</b>  |
| Excitation Voltage   | 6 to 30 VDC                 | 6 to 30 VDC                               |        | [1]Offset tolerance is based on 10 ft of 037 test cable.   |
| Current Consumption  | ≤ 30 mA                     | ≤ 30 mA                                   |        | [2]Typical.  |
| Output Impedance   | ≤ 120 Ohm                   | ≤ 120 Ohm                                 |        | [3]-65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)   |
| Offset Voltage(0 g)  | ± 80 mVDC                   | ± 80 mVDC                                 | [1]    | [4]FSO = Full Scale Output over the Measurement Range (4VDC).  |
| Spectral Noise(1 to 100 Hz)  | 400 µg/√Hz                  | 3924 (µm/sec <sup>2</sup> )/√Hz           | [2]    | [5]Measured at 100 Hz.   |
| Electrical Isolation(Case)   | >10 <sup>8</sup> Ohm        | >10 <sup>8</sup> Ohm                      |        | [6]Minimum, verified with Calibration data.  |
| <b>Physical</b>  |                             |   |        | [7]Least-squares, straight line method, % FSO.   |
| Housing Material   | Titanium                    | Titanium                                  |        | [8]See PCB Declaration of Conformance PS027 for details.   |
| Sealing  | Hermetic                    | Hermetic                                  |        |  |
| Size (Length x Width x Height)   | 0.85 in x 0.85 in x 0.85 in | 21.6 mm x 21.6 mm x 21.6 mm               |        | <b>SUPPLIED ACCESSORIES:</b>   |
| Weight   | 0.8 oz                      | 22.7 gm                                   |        | Model 080A12 Adhesive Mounting Base (1)  |
| Electrical Connector   | 9-Pin                       | 9-Pin                                     |        | Model 081B05 Mounting Stud (10-32 to 10-32) (1)  |
| Electrical Connection Position   | Side                        | Side                                      |        | Model ACS-145T Triaxial Calibration Phase and Magnitude from 2 Hz to ±3dB using Linear scale (1)   |
| Mounting Thread  | 10-32 Female                | 10-32 Female                              |        | Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)   |
|  |                             |   |        | Entered: AP    Engineer: JJD    Sales: RM    Approved: NJF    Spec Number:   |
|  |                             |   |        | Date: 4/9/2015    Date: 4/9/2015    Date: 4/9/2015    Date: 4/9/2015 <b>58435</b>  |
|  [8]   |                             |   |        |   |
| <i>All specifications are at room temperature unless otherwise specified.<br/>In the interest of constant product improvement, we reserve the right to change specifications without notice.<br/>ICP® is a registered trademark of PCB Group, Inc.</i> |                             |   |        | <b>Phone: 716-684-0001</b><br><b>Fax: 716-684-0987</b><br><b>E-Mail: info@pcb.com</b>  |



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