

|                                |                                  |                             |
|--------------------------------|----------------------------------|-----------------------------|
| Model Number<br><b>3711B03</b> | <b>DC RESPONSE ACCELEROMETER</b> | Revision: C<br>ECN #: 39611 |
|--------------------------------|----------------------------------|-----------------------------|

| Performance                               | ENGLISH                     | SI                             |        |
|---|-----------------------------|--------------------------------|--------|
| Sensitivity(± 5 %)                        | 66.7 mV/g                   | 6.80 mV/(m/s <sup>2</sup> )    |        |
| Measurement Range                         | ± 30 g pk                   | ± 294.2 m/s <sup>2</sup> pk    |        |
| Frequency Range(± 3 dB)                   | 0 to 50 Hz                  | 0 to 50 Hz                     |        |
| Resonant Frequency                        | ≥ 4 kHz                     | ≥ 4 kHz                        |        |
| Filter Type(2-pole)                       | Low Pass                    | Low Pass                       |        |
| Electrical Filter Roll-off                | 12 dB/octave                | 12 dB/octave                   |        |
| Electrical Filter Corner Frequency(-3 dB) | >45 - 55 Hz                 | >45 - 55 Hz                    |        |
| Broadband Resolution(0.5 to 100 Hz)       | 2.4 mg rms                  | 0.024 m/s <sup>2</sup> rms     | [2]    |
| Non-Linearity                             | ≤ 1 %                       | ≤ 1 %                          | [5]    |
| Transverse Sensitivity                    | ≤ 3 %                       | ≤ 3 %                          |        |
| Environmental                             |                             |                                |        |
| Overload Limit(Shock)                     | ± 3000 g pk                 | ± 29,420 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                   | 0.0001 g/με                 | 0.001 (m/s <sup>2</sup> )/με   | [2]    |
| Magnetic Sensitivity                      | 23.7 μg/gauss               | 2.32 (m/s <sup>2</sup> )/Tesla | [2]    |
| Electrical                                |                             |                                |        |
| Excitation Voltage                        | 6 to 30 VDC                 | 6 to 30 VDC                    |        |
| Current Consumption                       | ≤ 6 mA                      | ≤ 6 mA                         |        |
| Output Impedance                          | ≤ 100 Ohm                   | ≤ 100 Ohm                      |        |
| Offset Voltage(0 g)                       | ± 2460 to 2540 mVDC         | ± 2460 to 2540 mVDC            | [1]    |
| Spectral Noise(1 to 100 Hz)               | 88 μg/√Hz                   | 863 (μm/sec <sup>2</sup> )/√Hz | [2]    |
| Electrical Isolation(Case)                | >10 <sup>8</sup> Ohm        | >10 <sup>8</sup> Ohm           |        |
| Physical                                  |                             |                                |        |
| Housing Material                          | Titanium                    | Titanium                       |        |
| Sealing                                   | Hermetic                    | Hermetic                       |        |
| Size (Height x Length x Width)            | 0.45 in x 0.85 in x 0.85 in | 11.4 mm x 21.6 mm x 21.6 mm    |        |
| Weight                                    | 0.58 oz                     | 16.3 gm                        |        |
| Electrical Connector                      | 4-Pin                       | 4-Pin                          |        |
| Electrical Connection Position            | Side                        | Side                           |        |
| Mounting                                  | Through Hole                | Through Hole                   |        |

**OPTIONAL VERSIONS**  
Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

**NOTES:**  
 [1] Offset tolerance is based on 10 ft of 010 test cable.  
 [2] Typical.  
 [3] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)  
 [4] FSO = Full Scale Output over the Measurement Range (4VDC).  
 [5] Zero-based, least-squares, straight line method.  
 [6] See PCB Declaration of Conformance PS027 for details.

**SUPPLIED ACCESSORIES:**  
 Model 080A152 Easy Mount Clip (1)  
 Model 081A113 Mounting screw assembly (2)  
 Model ACS-133 Recalibration (1)  
 Model M081A113 Mounting screw assembly (2)

|                 |                 |                 |                 |              |
|-----------------|-----------------|-----------------|-----------------|--------------|
| Entered: AP     | Engineer: RPF   | Sales: RWM      | Approved: BAM   | Spec Number: |
| Date: 7/31/2012 | Date: 7/31/2012 | Date: 7/31/2012 | Date: 7/31/2012 | <b>45558</b> |



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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