

| | | |
|----------------------------------|----------------------------------|-----------------------------|
| Model Number 3711E112G | DC RESPONSE ACCELEROMETER | Revision: B ECN #: 46196 |
|----------------------------------|----------------------------------|-----------------------------|

| Performance | <u>ENGLISH</u> | <u>SI</u> | |
|---|-----------------------------|--------------------------------|--------|
| Sensitivity(± 3 %) | 1000 mV/g | 101.9 mV/(m/s ²) | [5] |
| Measurement Range | ± 2 g pk | ± 19.6 m/s ² pk | |
| Frequency Range(± 3 dB) | 0 to 400 Hz | 0 to 400 Hz | [2] |
| Frequency Range(± 3 dB) | 0 to 200 Hz | 0 to 200 Hz | [6] |
| Phase Response(10 Hz) | <3.0 ° | <3.0 ° | |
| Broadband Resolution(0.5 to 100 Hz) | .1 mg rms | .001 m/s ² rms | [2] |
| Non-Linearity | ≤ 1 % | ≤ 1 % | [7] |
| Transverse Sensitivity | ≤ 5 % | ≤ 5 % | |
| Environmental | | | |
| Overload Limit(Shock) | ± 2000 g pk | ± 19,620 m/s ² 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 | ± 5 % | ± 5 % | [3] |
| Zero g Offset Temperature Coefficient | ± 4 % FSO | ± 4 % FSO | [3][4] |
| Base Strain Sensitivity(Measured at 250 µε) | .0002 g/µε | .002 (m/s ²)/µε | [2] |
| Magnetic Sensitivity | 100 µg/gauss | 9.8 (m/s ²)/Tesla | [2] |
| Electrical | | | |
| Excitation Voltage | 6 to 30 VDC | 6 to 30 VDC | |
| Current Consumption | ≤ 10 mA | ≤ 10 mA | |
| Output Impedance | ≤ 120 Ohm | ≤ 120 Ohm | |
| Offset Voltage(0 g) | ± 160 mVDC | ± 160 mVDC | [1] |
| Spectral Noise(1 to 100 Hz) | 15 µg/√Hz | 147 (µm/sec ²)/√Hz | [2] |
| Electrical Isolation(Case) | >10 ⁸ Ohm | >10 ⁸ 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 Holes (2) | Through Holes (2) | |

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] Measured at 10 Hz, 1.0 pk
 [6] Minimum, verified with Calibration data.
 [7] Least-squares, straight line method, % FSO.
 [8] See PCB Declaration of Conformance PS027 for details.

SUPPLIED ACCESSORIES:

Model 080A152 Easy Mount Clip (1)
 Model 081A113 Mounting screw assembly (2)
 Model ACS-145 Phase and Amplitude Calibration from 2 Hz to ±3 dB of frequency range (1)
 Model M081A113 Mounting screw assembly (2)

| | | | | |
|------------------|------------------|------------------|------------------|--------------|
| Entered: LK | Engineer: JJD | Sales: WDC | Approved: NJF | Spec Number: |
| Date: 11/23/2016 | Date: 11/23/2016 | Date: 11/23/2016 | Date: 11/23/2016 | 60024 |



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.



Phone: 716-684-0001
Fax: 716-684-0987
E-Mail: info@pcb.com