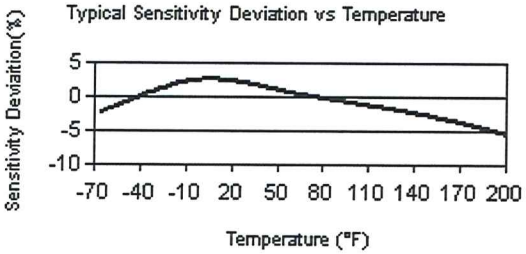
| Model Number | ICP® TO-5 ACCELEROMETER | Revision: A |
|---|---|---|
| 66212APZ1 | | ECN #: 35587 |

| Performance | ENGLISH | SI | |
|---|---|---|---|
| Sensitivity(± 20 %) | 100 mV/g | 1.02 mV/(m/s²) | [2][3] |
| Measurement Range | ± 50 g | ± 490 m/s² | |
| Frequency Range(± 3 dB) | 0.5 to 10k Hz | 0.5 to 10k Hz | [4][5] |
| Resonant Frequency | >25 kHz | >25 kHz | [5] |
| Broadband Resolution | 350 µg rms | 3434 µm/sec² rms | [1] |
| Non-Linearity | ≤ 1 % | ≤ 1 % | [6] |
| Transverse Sensitivity | ≤ 7 % | ≤ 7 % | |
| **Environmental** | | | |
| Overload Limit(Shock) | 5000 g pk | 49k m/s² pk | |
| Temperature Range(Operating) | -65 to +185 °F | -54 to -84 °C | |
| Temperature Response | See Graph | See Graph | [1] |
| **Electrical** | | | |
| Settling Time(within 1% of bias) | ≤ 2 sec | ≤ 2 sec | |
| Discharge Time Constant | ≥ 0.3 sec | ≥ 0.3 sec | |
| Excitation Voltage | 18 to 28 VDC | 18 to 28 VDC | |
| Constant Current Excitation | 2 to 20 mA | 2 to 20 mA | |
| Output Impedance | <150 ohm | <150 ohm | |
| Output Bias Voltage(± 10 %) | 8 to 12 VDC | 8 to 12 VDC | |
| Spectral Noise(10 Hz) | 8 µg/√Hz | 78.50 (µm/sec²)/√Hz | [1] |
| Spectral Noise(100 Hz) | 5 µg/√Hz | 49.1 (µm/sec²)/√Hz | [1] |
| Spectral Noise(1 kHz) | 4 µg/√Hz | 39.2 (µm/sec²)/√Hz | [1] |
| **Physical** | | | |
| Size (Lip Diameter x Height) | 0.36 in x 0.38 in | 9.1 mm x 9.7 mm | |
| Weight | 0.01 oz | 3 gm | |
| Mounting | Adhesive/Solder | Adhesive/Solder | |
| Sensing Element | Ceramic | Ceramic | |
| Sensing Geometry | Shear | Shear | |
| Housing Material | Stainless Steel | Stainless Steel | |
| Sealing | Welded Hermetic | Welded Hermetic | |
| Electrical Connector | Header Pins | Header Pins | |
| Electrical Connection Position | Bottom | Bottom | |
| Electrical Connections(Pin 1) | Signal / Power | Signal / Power | |
| Electrical Connections(Pin 2) | Neg (-) Ground | Neg (-) Ground | |
| Electrical Connections(Pin 3) | No Connection | No Connection | |

CE [7]




*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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## 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.

**HT** - High temperature, extends normal operation temperatures

| | | |
|---|---|---|
| Temperature Range(Operating) | -65 to 250 °F | -54 to 121 °C |

**RH** - RoHS Compliant

## NOTES:

[1] Typical.
[2] Positive output along Z-axis (in upward direction when pin mounted).
[3] Conversion Factor 1g = 9.81 m/s².
[4] The high frequency tolerance is accurate within ±10% of the specified frequency.
[5] Performance depends on mounting
[6] Zero-based, least-squares, straight line method.
[7] See PCB Declaration of Conformance PS023 or PS060 for details.

## SUPPLIED ACCESSORIES:

Model ICS-2 NIST-traceable single-axis single-point amplitude response calibration at 6000 cpm (100 Hz) (1)

| Entered: JOMW | Engineer: DJO | Sales: DPC | Approved: BAM | Spec Number: |
|---|---|---|---|---|
| Date: 4/21/11 | Date: 4/21/11 | Date: 4/21/11 | Date: 4/21/11 | 47326 |


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