

Model Number
66332APZ1

ICP® TO-8 ACCELEROMETER

Revision: C
ECN #: 50920

| | ENGLISH | SI | |
|----------------------------------|-------------------|---------------------------------|--------|
| Performance | | | |
| Sensitivity(± 20 %) | 1,000 mV/g | 102 mV/(m/s ²) | [1][2] |
| Measurement Range | ± 5 g | ± 50 m/s ² | |
| Frequency Range(± 3 dB) | 0.25 to 5k Hz | 0.25 to 5k Hz | [3][4] |
| Resonant Frequency | > 16 kHz | > 16 kHz | [4] |
| Broadband Resolution | 38 µg rms | 373 µm/sec ² rms | [5] |
| Non-Linearity | ≤ 1 % | ≤ 1 % | [6] |
| Transverse Sensitivity | ≤ 7 % | ≤ 7 % | |
| Environmental | | | |
| Acceleration Sensitivity(± 20 %) | 1,000 mV/g | 102 mV/(m/s ²) | [2] |
| Overload Limit(Shock) | 5,000 g pk | 49k m/s ² pk | |
| Temperature Range(Operating) | -65 to +185 °F | -54 to +85 °C | |
| Temperature Response | See Graph | See Graph | [5] |
| Electrical | | | |
| Settling Time(within 1% of bias) | ≤ 30 sec | ≤ 30 sec | |
| Discharge Time Constant | ≥ 0.65 sec | ≥ 0.65 sec | |
| Excitation Voltage | 18 to 28 VDC | 18 to 28 VDC | |
| Constant Current Excitation | 2 to 20 mA | 2 to 20 mA | |
| Output Impedance | < 550 Ohm | < 550 Ohm | |
| Output Bias Voltage | 8 to 12 VDC | 8 to 12 VDC | |
| Spectral Noise(10 Hz) | 1.9 µg/√Hz | 18.6 (µm/sec ²)/√Hz | [5] |
| Spectral Noise(100 Hz) | 0.6 µg/√Hz | 5.9 (µm/sec ²)/√Hz | [5] |
| Spectral Noise(1 kHz) | 0.4 µg/√Hz | 3.9 (µm/sec ²)/√Hz | [5] |
| Physical | | | |
| Size (Lip Diameter x Height) | 0.64 in x 0.57 in | 16.3 mm x 14.5 mm | |
| Weight | 0.88 oz | 25 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) | Ground | Ground | |
| Electrical Connections(Pin 3) | No Connection | No Connection | |

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

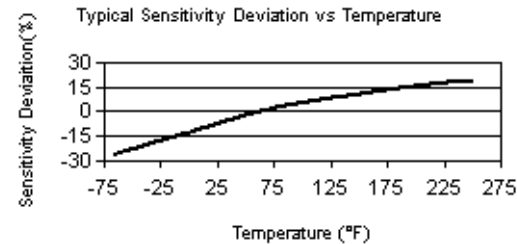
RH - RoHS Compliant

NOTES:

- [1] Conversion Factor 1g = 9.81 m/s².
- [2] Positive output along Z-axis (in upward direction when pin mounted).
- [3] The high frequency tolerance is accurate within ± 10% of the specified frequency.
- [4] Performance depends on mounting
- [5] Typical.
- [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-point amplitude response calibration at 6000 cpm (100 Hz) for each axis (1)



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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| Entered: LK | Engineer: NJF | Sales: MC | Approved: NJF | Spec Number: |
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