

Model Number
66332APZ1

ICP® TO-8 ACCELEROMETER

Revision: D
ECN #: 55512

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

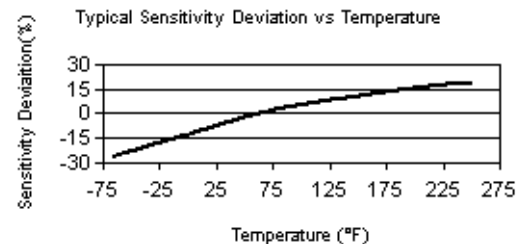
RH - RoHS Compliant

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 for details.

SUPPLIED ACCESSORIES:

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



CE
UK
CA^[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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| | | | | |
|------------------|------------------|------------------|------------------|--------------|
| Entered: ND | Engineer: NJF | Sales: JL | Approved: NJF | Spec Number: |
| Date: 02/25/2025 | Date: 02/25/2025 | Date: 02/25/2025 | Date: 02/25/2025 | 47329 |

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