

ICP® LOW-PROFILE TO-5 ACCELEROMETER

Performance
 Sensitivity(± 20 %) [2][3]
 Measurement Range ± 500 g [4][5]
 Frequency Range(± 3 dB) 0.5 to 5k Hz [5]
 Resonant Frequency >25 kHz [1]
 Bandwidth Resolution 0.0018 g rms [6]
 Non-Linearity ≤ 1 %
 Transverse Sensitivity ≤ 7 %

Environmental
 Overload Limit(Shock) 5000 g pk
 Temperature Range(Operating) -65 to +185 °F
 Temperature Response See Graph [1]

Electrical
 Settling Time(within 1% of bias) ≤ 2 sec
 Discharge Time Constant ≥ 0.3 sec
 Excitation Voltage 18 to 28 VDC
 Constant Current Excitation 2 to 20 mA
 Output Impedance <100 ohm
 Output Bias Voltage 8 to 12 VDC
 Spectral Noise(10 Hz) 186.4 (µm/sec²)/√Hz [1]
 Spectral Noise(100 Hz) 78.5 (µm/sec²)/√Hz [1]
 Spectral Noise(1 kHz) 49.1 (µm/sec²)/√Hz [1]

Physical
 Size (Lip Diameter x Height) 9.1 mm x 6.6 mm
 Weight 0.08 oz
 Mounting Adhesive/Solder
 Sensing Element Ceramic
 Sensing Geometry Shear
 Housing Material Stainless Steel
 Sealing Welded Hermetic
 Electrical Connector Header Pins
 Electrical Connection Position Bottom
 Electrical Connections(Pin 1) Signal / Power
 Electrical Connections(Pin 2) Neg (-) Ground
 Electrical Connections(Pin 3) No Connection

SI
 1.02 mV/(m/s²)
 ± 5000 m/s²
 0.5 to 5k Hz
 >25 kHz
 0.017658 m/s² rms
 ≤ 1 %
 ≤ 7 %
 49k m/s² pk
 -54 to +85 °C
 See Graph
 ≤ 2 sec
 ≥ 0.3 sec
 18 to 28 VDC
 2 to 20 mA
 <100 ohm
 8 to 12 VDC
 186.4 (µm/sec²)/√Hz
 78.5 (µm/sec²)/√Hz
 49.1 (µm/sec²)/√Hz
 9.1 mm x 6.6 mm
 2.2 gm
 Adhesive/Solder
 Ceramic
 Shear
 Stainless Steel
 Welded Hermetic
 Header Pins
 Bottom
 Signal / Power
 Neg (-) Ground
 No Connection



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: <u>YOMU</u>	Engineer: <u>DTD</u>	Sales: <u>SPC</u>	Approved: <u>BAM</u>
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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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