

INDUSTRIAL ICP® ACCELEROMETER

Performance
 Sensitivity(± 5 %) 10.2 mV/(m/s²) [2]
 Measurement Range ± 50 g [2]
 Frequency Range(± 5 %) 0.5 to 5000 Hz [3]
 Frequency Range(± 10 %) 0.37 to 7000 Hz [3]
 Frequency Range(± 3 dB) 0.2 to 10,000 Hz [1]
 Resonant Frequency 1380 kcpm [1]
 Broadband Resolution(1 to 10,000 Hz) 23 kHz [1]
 Non-Linearity 981 µm/s² [1]
 Transverse Sensitivity ± 1% [1]
 ± 5% [4]
Environmental
 Overload Limit(Shock) 5000 g pk [1]
 Temperature Range -65 to +250 °F [1]
 Temperature Response See Graph [1]
 Enclosure Rating IP68 [1]

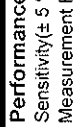
Electrical
 Settling Time(within 1% of bias) ≤ 5.0 sec
 Discharge Time Constant ≥ 1.0 sec
 Excitation Voltage 18 to 28 VDC
 Constant Current Excitation 2 to 20 mA
 Output Impedance <100 ohm
 Output Bias Voltage 8 to 12 VDC
 Spectral Noise(1 Hz) 147.2 (µm/s²)/√Hz [1]
 Spectral Noise(10 Hz) 39.2 (µm/s²)/√Hz [1]
 Spectral Noise(100 Hz) 14.7 (µm/s²)/√Hz [1]
 Spectral Noise(1 kHz) 6.9 (µm/s²)/√Hz [1]
 Electrical Isolation(Case) >10⁸ ohm
 Electrical Protection RFI/ESD

Physical
 Size (Hex x Height) 1 3/16 in x 2 3/16 in
 Weight 5.3 oz
 Mounting Thread 1/4-28 UNF [5]
 Mounting Torque 2 to 5 ft-lb
 Sensing Element Ceramic
 Housing Geometry Shear
 Sealing Stainless Steel
 Electrical Connector Welded Hermetic
 Electrical Connection Position 2-Pin MIL-C-5015
 Top

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.
M - Metric Mount
 Supplied Accessory : Model IM081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40
TO - Temperature Output
 Temperature Output Range +36 to +250 °F
 Temperature Scale Factor 5.56 mV/°F + 32
 Electrical Connector 3-Pin
 Electrical Connections(Pin A) Acceleration Output
 Electrical Connections(Pin B) Ground
 Electrical Connections(Pin C) Temperature Output

NOTES:
 [1] Typical.
 [2] Conversion Factor 1g = 9.81 m/s².
 [3] The high frequency tolerance is accurate within ±10% of the specified frequency.
 [4] Zero-based, least-squares, straight line method.
 [5] 1/4-28 has no equivalent in S.I. units.
 [6] See PCB Declaration of Conformance P5023 for details.

SUPPLIED ACCESSORIES:
 Model 081A40 Mounting Stud (1)
 Model 085A31 Protective Thermal Jacket (1)
 Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency



Entered: <i>JH</i>	Engineer: <i>DBS</i>	Sales: <i>JH</i>	Approved: <i>WZ</i>	Spec Number:
Date: 2/3/07	Date: 2/1/07	Date: 2/14/07	Date: 2/14/07	16892

Phone: 800-959-4464
 Fax: 716-684-3823
 E-Mail: imi@pcb.com

3425 Walden Avenue, Depew, NY 14043



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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