

Model Number
622B01

INDUSTRIAL ICP® ACCELEROMETER

Revision NR
ECN #:

Performance

Sensitivity ($\pm 5\%$)
 Measurement Range
 Frequency Range ($\pm 5\%$)
 Frequency Range ($\pm 10\%$)
 Frequency Range ($\pm 3\text{ dB}$)
 Resonant Frequency
 Broadband Resolution (1 to 10000 Hz)
 Non-Linearity
 Transverse Sensitivity

ENGLISH

100 mV/g
 $\pm 50\text{ g}$
 35 to 3600000 cpm
 25 to 6000000 cpm
 12 to 9000000 cpm
 1800 kcpm
 50 μg
 $\pm 1\%$
 $\leq 5\%$

SI

10.2 mV/(m/s²)
 $\pm 490\text{ m/s}^2$
 0.58 to 6000 Hz
 0.42 to 10000 Hz
 0.2 to 15000 Hz
 30 kHz
 490 $\mu\text{m/s}^2$
 $\pm 1\%$
 $\leq 5\%$

Environmental

Overload Limit (Shock)
 Temperature Range
 Temperature Response
 Enclosure Rating

5000 g pk
 $-65\text{ to }+250\text{ }^\circ\text{F}$
 See Graph
 IP68

49050 m/s² pk
 $-54\text{ to }+121\text{ }^\circ\text{C}$
 See Graph
 IP68

Electrical

Settling Time (within 1% of bias)
 Discharge Time Constant
 Excitation Voltage
 Constant Current Excitation
 Output Impedance
 Output Bias Voltage
 Spectral Noise (10 Hz)
 Spectral Noise (100 Hz)
 Spectral Noise (1 kHz)
 Electrical Isolation
 Electrical Protection

$\leq 5.0\text{ sec}$
 $\geq 0.8\text{ sec}$
 18 to 28 VDC
 2 to 20 mA
 $< 100\text{ ohm}$
 8 to 12 VDC
 4.0 $\mu\text{g}/\sqrt{\text{Hz}}$
 0.8 $\mu\text{g}/\sqrt{\text{Hz}}$
 0.4 $\mu\text{g}/\sqrt{\text{Hz}}$
 $> 10^8\text{ ohm}$
 RFI/ESD

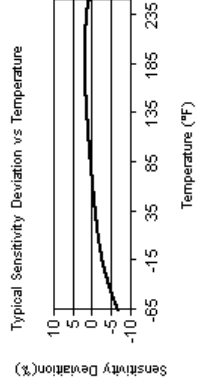
$\leq 5.0\text{ sec}$
 $\geq 0.8\text{ sec}$
 18 to 28 VDC
 2 to 20 mA
 $< 100\text{ ohm}$
 8 to 12 VDC
 39.2 ($\mu\text{m/s}^2$)/ $\sqrt{\text{Hz}}$
 7.85 ($\mu\text{m/s}^2$)/ $\sqrt{\text{Hz}}$
 3.92 ($\mu\text{m/s}^2$)/ $\sqrt{\text{Hz}}$
 $> 10^8\text{ ohm}$
 RFI/ESD

Physical

Size (Hex x Height)
 Weight
 Mounting Thread
 Mounting Torque
 Sensing Element
 Sensing Geometry
 Housing Material
 Sealing
 Electrical Connector
 Electrical Connection Position

7/8 in x 2.06 in
 3.3 oz
 1/4-28 Female
 2 to 5 ft-lb
 Ceramic
 Shear
 Stainless Steel
 Welded Hermetic
 2-Pin MIL-C-5015
 Top

22 mm x 52.3 mm
 94 gm
 No Metric Equivalent
 2.7 to 6.8 N-m
 Ceramic
 Shear
 Stainless Steel
 Welded Hermetic
 2-Pin MIL-C-5015
 Top



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 standard model except where noted below. More than one option may be used.)
M - Metric Mount
 Supplied Accessory: Model M081A61 Mounting stud, 1/4-28 to M6 x 1

Notes

- [1] Typical.
- [2] Conversion Factor 1g = 9.81 m/s².
- [3] The high frequency tolerance is accurate within $\pm 10\%$ 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 PS023 for details.

Supplied Accessories

081A40 Mounting Stud (1)
 ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency (1)

Entered: LLH	Engineer: JJD	Sales: JJ	Approved: NJF	Spec Number:
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