

HIGH TEMPERATURE INDUSTRIAL ICP® ACCELEROMETER

Model Number
HT623C01

Revision: A
ECN #: 24311

Performance
Sensitivity (± 5 %)
Measurement Range
Frequency Range (± 5 %)
Frequency Range (± 10 %)
Frequency Range (± 3 dB)
Resonant Frequency
Broadband Resolution (1 to 10,000 Hz)
Non-Linearity
Transverse Sensitivity
Environmental
Overload Limit (Shock)
Temperature Range
Temperature Response
Electrical
Settling Time (within 1% of bias)
Discharge Time Constant
Excitation Voltage
Constant Current Excitation
Output Bias Voltage (at 4 mA)
Spectral Noise (10 Hz)
Spectral Noise (100 Hz)
Spectral Noise (1 kHz)
Electrical Isolation (Case)
Electrical Protection
Physical
Size (Hex x Height)
Weight
Mounting Thread
Mounting Torque
Sensing Element
Sensing Geometry
Housing Material
Sealing
Electrical Connector
Electrical Connection Position

ENGLISH
100 mV/g
± 50 g
144 to 420,000 cpm
102 to 480,000 cpm
48 to 720,000 cpm
2100 kcpm
300 µg
± 1 %
± 5 %
5000 g pk
-65 to +325 °F
See Graph
≤ 2 sec
≥ 0.2 sec
18 to 28 VDC
2 to 10 mA
8 to 15 VDC
20 µg/√Hz
7 µg/√Hz
3 µg/√Hz
>10⁸ ohm
RF/ESD
11/16 in x 1.97 in
1.80 oz
1/4-28 UNF
2 to 5 ft-lb
Ceramic
Shear
Stainless Steel
Welded Hermetic
MIL-C-5015
Top

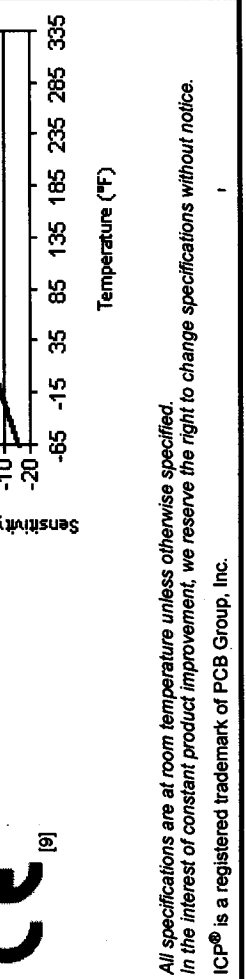
OPTIONAL VERSIONS
Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
M - Metric Mount
Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40

SI
10.2 mV/(m/s²)
± 490 m/s²
2.4 to 7 kHz
1.7 to 8 kHz
0.8 to 12 kHz
35 kHz
2943 µm/s²
± 1 %
± 5 %
49,050 m/s² pk
-54 to +163 °C
See Graph
≤ 2 sec
≥ 0.2 sec
18 to 28 VDC
2 to 10 mA
8 to 15 VDC
196 (µm/s²)/√Hz
69 (µm/s²)/√Hz
29 (µm/s²)/√Hz
>10⁸ ohm
RF/ESD
17.5 mm x 50 mm
51 gm
No Metric Equivalent
2.7 to 6.8 N-m
Ceramic
Shear
Stainless Steel
Welded Hermetic
MIL-C-5015
Top

NOTES:
[1] Maximum of 4 mA is recommended at temperatures above 250 °F (121 °C).
[2] Bias voltage increases with higher constant current.
[3] Typical.
[4] Conversion Factor 1g = 9.81 m/s².
[5] 1Hz = 60 cpm (cycles per minute).
[6] The high frequency tolerance is accurate within ±10% of the specified frequency.
[7] Zero-based, least-squares, straight line method.
[8] 1/4-28 has no equivalent in S.I. units.
[9] See PCB Declaration of Conformance PS023 for details.

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

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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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