

Model Number
HT622A01

Revision: C
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 Impedance

Output Bias Voltage (at 4 mA)

Spectral Noise (10 Hz)

Spectral Noise (100 Hz)

Spectral Noise (1 kHz)

Electrical Isolation

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

35 to 240,000 cpm

25 to 300,000 cpm

12 to 480,000 cpm

1200 kcpm

150 µg

± 1 %

± 5 %

5000 g pk

-65 to +325 °F

See Graph

± 5 sec

≥ 0.8 sec

18 to 28 VDC

2 to 10 mA

<700 ohm

8 to 15 VDC

12 µg/√Hz

3.2 µg/√Hz

1.2 µg/√Hz

>10⁶ ohm

RF/ESD

7/8 in x 2.0 in

3.3 oz

1/4-28 UNF

2 to 5 ft-lb

Ceramic

Shear

Stainless Steel

Welded Hermetic

MIL-C-5015

Top

22.2 mm x 50.8 mm

93 gm

No Metric Equivalent

2.7 to 6.8 N-m

Ceramic

Shear

Stainless Steel

Welded Hermetic

MIL-C-5015

Top

SI

10.2 mV/(m/s²)

± 490 m/s²

0.58 to 4000 Hz

0.42 to 5000 Hz

0.2 to 8000 Hz

20 kHz

1472 µm/s²

± 1 %

± 5 %

49,050 m/s² pk

-54 to +163 °C

See Graph

≤ 5 sec

≥ 0.8 sec

18 to 28 VDC

2 to 10 mA

<700 ohm

8 to 15 VDC

118 (µm/s²)/√Hz

31.4 (µm/s²)/√Hz

11.8 (µm/s²)/√Hz

>10⁶ ohm

RF/ESD

22.2 mm x 50.8 mm

93 gm

No Metric Equivalent

2.7 to 6.8 N-m

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

TO - Temperature Output

Temperature Output Range

Temperature Scale Factor

Electrical Connector

Electrical Connections (Pin A)

Electrical Connections (Pin B)

Electrical Connections (Pin C)

+36 to +302 °F

5.56 mV/°F + 32

3-Pin

Acceleration Output

Ground

Temperature Output

+2 to +150 °C

+10 mV/°C

3-Pin

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)

Entered: *[Signature]*

Engineer: *UP*

Sales: *[Signature]*

Approved: *[Signature]*

Spec Number:

Date: *5-18-06*

Date: *5/19/06*

Date: *5/30/06*

15074

IMISENSORS

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CE

[9]

Typical Sensitivity Deviation vs Temperature

Temperature (°F)	Sensitivity Deviation (%)
-65	0
-35	0
5	0
35	0
65	0
95	0
125	0
155	0
185	0
215	0
245	0
275	0
305	0
335	0

Temperature (°F)

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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