

Model Number
605B02

LOW-COST BIAxIAL INDUSTRIAL ICP® ACCELEROMETER

Revision: A
ECN #: 38753

Performance

Sensitivity(± 20 %)	51 mV/(m/s ²)	[2]
Measurement Range	± 10 g	[3]
Frequency Range(± 3 dB)	.5 to 3000 Hz	[1]
Resonant Frequency	10 kHz	[1]
Broadband Resolution(1 to 10,000 Hz)	1471 µm/sec ²	[1]
Non-Linearity	± 1 %	[4]
Transverse Sensitivity	± 5 %	
Overload Limit(Shock)	49,050 m/s ² pk	
Temperature Range	-54 to +121 °C	
Temperature Response	See Graph	[1]
Enclosure Rating	IP68	

Electrical

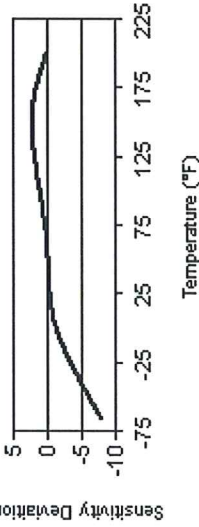
Settling Time(within 1% of bias)	≤ 5.0 sec	
Discharge Time Constant	≥ 0.3 sec	
Excitation Voltage	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	
Output Impedance	<500 Ohm	
Output Bias Voltage	8 to 12 VDC	
Spectral Noise(10 Hz)	78.5 (µm/sec ²)/√Hz	[1]
(100 Hz)	29.4 (µm/sec ²)/√Hz	[1]
(1 kHz)	29.4 (µm/sec ²)/√Hz	[1]
Electrical Isolation(Case)	>10 ⁸ Ohm	

Physical

Size (Diameter x Height)	1.38 in x 1.00 in	
Weight(without cable)	3.9 oz	
Mounting Thread	1/4-28 UNF	[5]
Mounting Torque	2 to 5 ft-lb	
Sensing Element	Ceramic	
Sensing Geometry	Shear	
Housing Material	Stainless Steel	
Sealing	Welded Hermetic	
Electrical Connector	3-Pin MIL-C-5015	
Electrical Connection Position	Side	
Electrical Connections(Pin A)	X axis	
(Pin B)	Z axis	
(Pin C)	Ground	



Typical Sensitivity Deviation vs Temperature



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

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 M081A68 Captive mounting bolt M6 x 1 (1) replaces Model 081A68

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 PS023 for details.

SUPPLIED ACCESSORIES:

Model 081A68 Captive mounting bolt 1/4-28 x .90" (1)
Model ACS-2T NIST Traceable Single Point Calibration at 100 Hz for Each Axis (1)

Entered: <i>JST</i>	Engineer: <i>JST</i>	Sales: <i>MAS</i>	Approved: <i>JST</i>	Spec Number:
Date: <i>3-15-12</i>	Date: <i>3-9-12</i>	Date: <i>3-9-12</i>	Date: <i>3-9-12</i>	41285