

Model Number
626B02

LOW FREQUENCY INDUSTRIAL ICP® ACCELEROMETER

Revision A
ECN #: 20059

Performance

	ENGLISH	SI	
Sensitivity (±5 %)	500 mV/g	51 mV/(m/s ²)	[2]
Measurement Range	±10 g	±98 m/s ²	
Frequency Range (±5 %)	30 to 120000 cpm	0.5 to 2000 Hz	[3]
Frequency Range (±10 %)	22 to 240000 cpm	0.37 to 4000 Hz	
Frequency Range (±3 dB)	12 to 360000 cpm	0.2 to 6000 Hz	
Resonant Frequency	720 kcpm	12 kHz	[1]
Broadband Resolution (1 to 10000 Hz)	20 µg	196 µm/sec ²	[1]
Non-Linearity	±1 %	±1 %	[4]
Transverse Sensitivity	≤7 %	≤7 %	

Environmental

Overload Limit (Shock)	2500 g pk	24525 m/s ² pk
Temperature Range	-65 to +250 °F	-54 to +121 °C
Enclosure Rating	IP68	IP68

Electrical

Settling Time (within 1% of bias)	≤3.0 sec	≤3.0 sec	
Discharge Time Constant	≥1.0 sec	≥1.0 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<100 Ohm	<100 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise (10 Hz)	0.9 µg/√Hz	8.8 (µm/sec ² /√Hz)	[1]
Spectral Noise (100 Hz)	0.7 µg/√Hz	7.0 (µm/sec ² /√Hz)	[1]
Spectral Noise (1 kHz)	0.3 µg/√Hz	3.1 (µm/sec ² /√Hz)	[1]
Electrical Isolation (Case)	>10 ⁹ Ohm	>10 ⁹ Ohm	

Physical

Size (Hex x Height)	1 3/16 in x 2 3/16 in	30.2 mm x 55.6 mm	
Weight	7.0 oz	199 gm	
Mounting Thread	1/4-28 UNF	Not Applicable	[5]
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 Nm	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	2-Pin MIL-C-5015	2-Pin MIL-C-5015	
Electrical Connection Position	Top	Top	

Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

M - Metric Mount

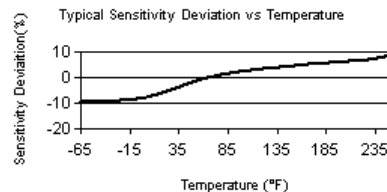
Supplied Accessory: Model M081A61 Mounting stud, 1/4-28 to M6 x 1 replaces Model 081A40

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

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



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.

ICP® is a registered trademark of PCB group, Inc.

Entered: BLS	Engineer: MWS	Sales: DPS	Approved: NJF	Spec Number:
Date: 06/18/2004	Date: 06/18/2004	Date: 06/18/2004	Date: 06/29/2004	18541



3425 Walden Avenue
Depew, NY 14043
UNITED STATES
Phone: 716-684-0003
Fax: 716-684-3823
E-mail: imi@pcb.com
Web site: www.imi-sensors.com

--	--