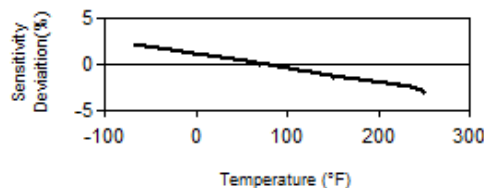


Model Number 624B61	PRECISION QUARTZ INDUSTRIAL ICP® ACCELEROMETER		Revision: A ECN #: 47022
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>	<b>OPTIONAL VERSIONS</b>
Sensitivity(± 5 %)	100 mV/g	10.2 mV/(m/s <sup>2</sup> )	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
Measurement Range	± 50 g	± 490 m/s <sup>2</sup>	<b>LB - Low Bias Voltage</b>
Frequency Range(± 5 %)	144 to 300,000 cpm	2.4 to 5000 Hz	Output Bias Voltage
Frequency Range(± 10 %)	102 to 420,000 cpm	1.7 to 7000 Hz	6 to 8 VDC
Frequency Range(± 3 dB)	48 to 600,000 cpm	0.8 to 10,000 Hz	6 to 8 VDC
Resonant Frequency	1080 kcpm	18 kHz	Excitation Voltage
Broadband Resolution(1 to 10,000 Hz)	1000 µg	9810 µm/sec <sup>2</sup>	12 to 28 VDC
Non-Linearity	± 1 %	± 1 %	Measurement Range
Transverse Sensitivity	≤ 5 %	≤ 5 %	± 35 g
<b>Environmental</b>			± 343 m/s <sup>2</sup>
Overload Limit(Shock)	5000 g pk	49,050 m/s <sup>2</sup> pk	<b>M - Metric Mount</b>
Temperature Range	-65 to +250 °F	-54 to +121 °C	Supplied Accessory : Model M081A67 Captive mounting bolt M6 x 1 (1)
Temperature Response	See Graph	See Graph	<b>TO - Temperature Output</b>
Enclosure Rating	IP68	IP68	Temperature Output Range
<b>Electrical</b>			+36 to +250 °F
Settling Time(within 1% of bias)	≤ 10 sec	≤ 10 sec	Temperature Scale Factor
Discharge Time Constant	≥ 0.2 sec	≥ 0.2 sec	5.56 mV/°F + 32
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	Electrical Connector
Constant Current Excitation	2 to 20 mA	2 to 20 mA	Integral Armored Cable
Output Impedance	<100 Ohm	<100 Ohm	Electrical Connections(Green)
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	Ground
Spectral Noise(10 Hz)	50 µg/√Hz	491 (µm/sec <sup>2</sup> )/√Hz	Electrical Connections(Black)
Spectral Noise(100 Hz)	20 µg/√Hz	196 (µm/sec <sup>2</sup> )/√Hz	Ground
Spectral Noise(1 kHz)	6 µg/√Hz	59 (µm/sec <sup>2</sup> )/√Hz	Electrical Connections(White)
Electrical Protection	RFI/ESD	RFI/ESD	Temperature Output
Electrical Isolation(Case)	>10 <sup>8</sup> Ohm	>10 <sup>8</sup> Ohm	Electrical Connections(Red)
<b>Physical</b>			Acceleration Output
Size (Diameter x Height)	1.37 in x .955 in	34.8 mm x 24.3 mm	
Weight(without cable)	4.2 oz	120 gm	
Mounting Thread	1/4-28 Male	1/4-28 Male	
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 Nm	
Sensing Element	Quartz	Quartz	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	Integral Armored Cable	Integral Armored Cable	
Electrical Connection Position	Side	Side	
Cable Length	10 ft	3.0 m	
Cable Type	Polyurethane	Polyurethane	
			<b>NOTES:</b>
			[1] Typical.
			[2] Conversion Factor 1g = 9.81 m/s <sup>2</sup> .
			[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] Stainless steel armor jacket over twisted shielded pair.
			[7] See PCB Declaration of Conformance PS023 for details.
			<b>SUPPLIED ACCESSORIES:</b>
			Model 081A67 Captive mounting bolt 1/4-28 x 1.12" (1)
			Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency (1)
			Entered: LK
			Engineer: NJF
			Sales: MC
			Approved: NJF
			Spec Number:
			Date: 7/11/2017
			Date: 7/11/2017
			Date: 7/11/2017
			Date: 7/11/2017
			<b>20636</b>
			<b>IMI SENSORS</b>
			A PCB PIEZOTRONICS DIV.
			3425 Walden Avenue, Depew, NY 14043
			Phone: 800-959-4464
			Fax: 716-684-3823
			E-Mail: imi@pcb.com

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.

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



Represented in India by

Structural Solutions Pvt Ltd. | Phone: 040 2322 2380 | Email: sales@stsols.com

#4th Floor, Sudheer Tapani Towers, Himayath Nagar, Hyderabad - 500 029