

Model Number 624B01	INDUSTRIAL ICP[®] ACCELEROMETER			Revision: NR ECN #:
Performance	ENGLISH	SI		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. LB - Low Bias Voltage Output Bias Voltage 6 to 8 VDC 6 to 8 VDC Excitation Voltage 12 to 28 VDC 12 to 28 VDC Measurement Range ±35 g ± 343 m/s ² M - Metric Mount Supplied Accessory : Model M081A67 Captive mounting bolt M6 x 1 (1) replaces Model 081A67 TO - Temperature Output Temperature Output Range +36 to +250 °F +2 to +121 °C Temperature Scale Factor 5.56 mV/°F + 32 +10 mV/°C Electrical Connector 3-Pin MIL-C-5015 3-Pin MIL-C-5015 Electrical Connections (Pin A) Acceleration Output Acceleration Output Electrical Connections (Pin B) Ground Ground Electrical Connections (Pin C) Temperature Output Temperature Output
Sensitivity (±5 %)	100 mV/g	10.2 mV/(m/s ²)	[2]	
Measurement Range	±50 g	± 490 m/s ²		
Frequency Range (±5 %)	144 to 300000 cpm	2.4 to 5000 Hz	[3]	
Frequency Range (±10 %)	102 to 420000 cpm	1.7 to 7000 Hz		
Frequency Range (±3 dB)	48 to 600000 cpm	0.8 to 10000 Hz		
Resonant Frequency	1080 kcpm	18 kHz	[1]	
Broadband Resolution (1 to 10000 Hz)	1000 µg	9810 µm/s ²	[1]	
Non-Linearity	±1 %	±1 %	[4]	
Transverse Sensitivity	≤5 %	≤5 %		
Environmental				
Overload Limit (Shock)	5000 g pk	49050 m/s ² pk		
Temperature Range	-65 to +250 °F	-54 to +121 °C		
Temperature Response	See Graph	See Graph		
Enclosure Rating	IP68	IP68		
Electrical				
Settling Time (within 1% of bias)	≤10 sec	≤10 sec		
Discharge Time Constant	≥0.2 sec	≥0.2 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 ohms	<100 ohms		
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC		
Spectral Noise (10 Hz)	50 µg/√Hz	491 (µm/s ²)/√Hz	[1]	
Spectral Noise (100 Hz)	20 µg/√Hz	196 (µm/s ²)/√Hz	[1]	
Spectral Noise (1 kHz)	6 µg/√Hz	59 (µm/s ²)/√Hz	[1]	
Electrical Isolation (Case)	>10 ⁸ ohms	>10 ⁸ ohms		
Electrical Protection	RFI/ESD	RFI/ESD		
Physical				
Size (Diameter x Height)	1.37 in x .955 in	34.8 mm x 24.3 mm		
Weight	4.2 oz	120 gm		
Mounting Thread	1/4-28 Male	Not Applicable	[5]	
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 N-m		
Sensing Element	Quartz	Quartz		
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	Side	Side		
<p><i>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.</i></p> <p>ICP[®] is a registered trademark of PCB Group, Inc.</p>				
Entered: <i>ms</i> Engineer: <i>ms</i> Sales: <i>BBJ</i> Approved: <i>N.S</i> Spec Number:		Date: <i>9/17/02</i> Date: <i>9/17/02</i> Date: <i>10/7/02</i> Date: <i>10/7/02</i> 20639		
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