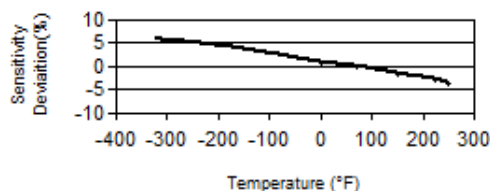


Model Number 351B31	ICP® ACCELEROMETER			Revision: E ECN #: 48061																
Performance	ENGLISH	SI	OPTIONAL VERSIONS																	
Sensitivity(± 10 %)	50 mV/g	5.10 mV/(m/s²)	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.																	
Measurement Range	± 30 g pk	± 294 m/s² pk																		
Frequency Range(± 5 %)	1 to 4000 Hz	1 to 4000 Hz																		
Frequency Range(± 10 %)	0.7 to 7000 Hz	0.7 to 7000 Hz																		
Frequency Range(± 3 dB)	0.35 to 10,000 Hz	0.35 to 10,000 Hz																		
Resonant Frequency	≥ 22 kHz	≥ 22 kHz																		
Broadband Resolution	0.002 g rms	0.02 m/s² rms	[1]																	
Non-Linearity	≤ 1 %	≤ 1 %	[2]																	
Transverse Sensitivity	≤ 5 %	≤ 5 %	[3]																	
Environmental																				
Overload Limit	± 2000 g pk	± 19,620 m/s² pk																		
Temperature Range	-320 to +250 °F	-196 to +121 °C																		
Temperature Response	See Graph	See Graph	[1]																	
Base Strain Sensitivity	<0.0002 g/με	<0.002 (m/s²)/με	[1]																	
Electrical																				
Excitation Voltage	20 to 30 VDC	20 to 30 VDC																		
Constant Current Excitation	2 to 20 mA	2 to 20 mA																		
Output Impedance	≤ 200 Ohm	≤ 200 Ohm																		
Output Bias Voltage	3 to 10 VDC	3 to 10 VDC																		
Discharge Time Constant	>0.5 sec	>0.5 sec																		
Spectral Noise(10 Hz)	44 μg/√Hz	431 (μm/sec²)/√Hz	[1]																	
Spectral Noise(100 Hz)	12 μg/√Hz	121 (μm/sec²)/√Hz	[1]																	
Spectral Noise(1 kHz)	3.2 μg/√Hz	31 (μm/sec²)/√Hz	[1]																	
Spectral Noise(1 Hz)	200 μg/√Hz	1960 (μm/sec²)/√Hz	[1]																	
Electrical Isolation	None (Optional) Ohm	None (Optional) Ohm																		
Physical																				
Size (Height x Hex)	0.85 in x 0.75 in	21.6 mm x 19.1 mm																		
Weight	0.7 oz	20 gm	[1]																	
Sensing Element	Quartz	Quartz																		
Sensing Geometry	Shear	Shear																		
Housing Material	Titanium	Titanium																		
Sealing	Welded Hermetic	Welded Hermetic																		
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack																		
Electrical Connection Position	Side	Side																		
Mounting Thread	10-32 Female	10-32 Female																		
Typical Sensitivity Deviation vs Temperature <table border="1"><caption>Typical Sensitivity Deviation vs Temperature Data</caption><thead><tr><th>Temperature (°F)</th><th>Sensitivity Deviation (%)</th></tr></thead><tbody><tr><td>-300</td><td>5</td></tr><tr><td>-200</td><td>3</td></tr><tr><td>-100</td><td>1</td></tr><tr><td>0</td><td>-1</td></tr><tr><td>100</td><td>-3</td></tr><tr><td>200</td><td>-4</td></tr><tr><td>300</td><td>-5</td></tr></tbody></table>					Temperature (°F)	Sensitivity Deviation (%)	-300	5	-200	3	-100	1	0	-1	100	-3	200	-4	300	-5
Temperature (°F)	Sensitivity Deviation (%)																			
-300	5																			
-200	3																			
-100	1																			
0	-1																			
100	-3																			
200	-4																			
300	-5																			
NOTES: [1] Typical. [2] Zero-based, least-squares, straight line method. [3] Transverse sensitivity is typically ≤ 3%. [4] See PCB Declaration of Conformance PS023 for details.																				
SUPPLIED ACCESSORIES: Model 081B05 Mounting Stud (10-32 to 10-32) (1) Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1) Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)																				
Entered: LK	Engineer: LM	Sales: WDC	Approved: JJB	Spec Number:																
Date: 4/19/2018	Date: 4/19/2018	Date: 4/19/2018	Date: 4/19/2018	351-2310-80																
 3425 Walden Avenue, Depew, NY 14043			Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@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.
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