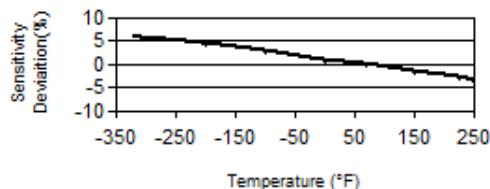


Model Number 351B14	ICP® ACCELEROMETER			Revision: F ECN #: 48061
Performance	ENGLISH	SI	OPTIONAL VERSIONS	
Sensitivity(± 10 %)	5 mV/g	0.51 mV/(m/s ²)	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
Measurement Range	± 300 g pk	± 2943 m/s ² pk	A - Adhesive Mount	
Frequency Range(± 5 %)	1 to 8000 Hz	1 to 8000 Hz	J - Ground Isolated	
Frequency Range(± 10 %)	0.7 to 10,000 Hz	0.7 to 10,000 Hz	Frequency Range(5 %)	8 kHz
Frequency Range(± 3 dB)	0.35 to 20,000 Hz	0.35 to 20,000 Hz	Frequency Range(10 %)	10 kHz
Resonant Frequency	≥ 40 kHz	≥ 40 kHz	Resonant Frequency	≥ 36 kHz
Broadband Resolution(1 to 10,000 Hz)	0.01 g rms	0.1 m/s ² rms [1]	Electrical Isolation(Base)	>10 ⁸ Ohm
Non-Linearity	≤ 1 %	≤ 1 % [2]	Size - Hex x Height	0.37 in x 0.86 in
Transverse Sensitivity	≤ 5 %	≤ 5 % [3]	Weight	0.10 oz 3.0 gm [1]
Environmental			M - Metric Mount	
Overload Limit	± 10,000 g pk	± 98,100 m/s ² pk	Mounting Thread	M3 x 0.50 Male
Temperature Range	-320 to +250 °F	-196 to +121 °C	W - Water Resistant Cable	
Temperature Response	See Graph	See Graph [1]	Electrical Connector	Sealed Integral Cable
Base Strain Sensitivity	≤ 0.005 g/µε	≤ 0.05 (m/s ²)/µε [1]	Electrical Connection Position	Top
Electrical			NOTES:	
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	[1] Typical.	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	[2] Zero-based, least-squares, straight line method.	
Output Impedance	≤ 200 Ohm	≤ 200 Ohm	[3] Transverse sensitivity is typically ≤ 3%.	
Output Bias Voltage	3 to 10 VDC	3 to 10 VDC	[4] See PCB Declaration of Conformance PS023 for details.	
Discharge Time Constant	0.5 to 2.0 sec	0.5 to 2.0 sec	SUPPLIED ACCESSORIES:	
Spectral Noise(1 Hz)	2000 µg/√Hz	19,620 (µm/sec ²)/√Hz [1]	Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)	
Spectral Noise(10 Hz)	400 µg/√Hz	3924 (µm/sec ²)/√Hz [1]	Entered: LK	
Spectral Noise(100 Hz)	120 µg/√Hz	1177 (µm/sec ²)/√Hz [1]	Engineer: LM	
Spectral Noise(1 kHz)	30 µg/√Hz	294 (µm/sec ²)/√Hz [1]	Sales: WDC	
Physical			Approved: JJB	
Size (Height x Hex)	0.74 in x 0.28 in	18.8 mm x 7.1 mm	Spec Number:	
Weight	0.06 oz	1.8 gm [1]	Date: 4/19/2018	
Sensing Element	Quartz	Quartz	Date: 4/19/2018	
Sensing Geometry	Shear	Shear	Date: 4/19/2018	
Housing Material	Titanium	Titanium	Date: 4/19/2018	
Sealing	Hermetic	Hermetic	351-2140-80	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	PCB PIEZOTRONICS ™	
Electrical Connection Position	Top	Top	3425 Walden Avenue, Depew, NY 14043	
Mounting Thread	5-40 Male	5-40 Male	Phone: 716-684-0001	
Mounting Torque	8 to 12 in-lb	90 to 135 N-cm	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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