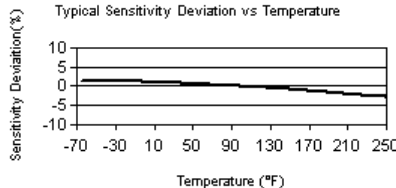


Model Number 353B11		ACCELEROMETER, ICP®		Revision J ECN #: 26810	
Performance		ENGLISH	SI	Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)	
Sensitivity (±10 %)	5 mV/g	0.51 mV/(m/s²)		A - Adhesive Mount [5] Supplied Accessory: Model 080A90 Quick bond Gel (for use with accelerometer adhesive mtg bases to fill gaps on rough surfaces)	
Measurement Range	±1000 g pk	±9810 m/s² pk		B - Low bias electronics	
Frequency Range (±5 %)	1 to 10000 Hz	1 to 10000 Hz		Output Bias Voltage	4.5 to 7.5 VDC 4.5 to 7.5 VDC
Frequency Range (±10 %)	0.7 to 18000 Hz	0.7 to 18000 Hz		Excitation Voltage	12 to 30 VDC 12 to 30 VDC
Frequency Range (±3 dB)	0.35 to 30000 Hz	0.35 to 30000 Hz		Constant Current Excitation	1 to 20 mA 1 to 20 mA
Resonant Frequency	≥70 kHz	≥70 kHz		Measurement Range	±600 g pk ±5886 m/s² pk
Broadband Resolution (1 to 10000 Hz)	0.01 g rms	0.1 m/s² rms	[1]	J - Ground Isolated	
Non-Linearity	≤1 %	≤1 %	[2]	Frequency Range (±5 %)	1 to 8000 Hz 1 to 8000 Hz
Transverse Sensitivity	≤5 %	≤5 %	[3]	Frequency Range (±10 %)	0.7 to 15000 Hz 0.7 to 15000 Hz
Environmental				Resonant Frequency	≥56 kHz ≥56 kHz
Overload Limit (Shock)	±10000 g pk	±98100 m/s² pk		Electrical Isolation (Base)	≥10⁸ ohm ≥10⁸ ohm
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C	[1]	Size (Hex x Height)	0.37 in x 0.57 in 9.5 mm x 14.5 mm
Temperature Response	See Graph	See Graph	[1]	Weight	0.11 oz 3.2 gm
Base Strain Sensitivity	≤0.005 g/με	≤0.05 (m/s²)/με	[1]	M - Metric Mount	
Electrical				Mounting Thread	M3 x 0.50 Male (M3 x 0.50 Male)
Excitation Voltage	18 to 30 VDC	18 to 30 VDC		Supplied Accessory: Model M080A15 Metric adhesive base, 0.31" hex x 0.125" thk, M3 x 0.50 thd, aluminum with insulating hardcoat finish replaces Model 080A15	
Constant Current Excitation	2 to 20 mA	2 to 20 mA		Q - Extended discharge time constant [6]	
Output Impedance	≤100 ohm	≤100 ohm		Frequency Range (±5 %)	0.15 to 10000 Hz 0.15 to 10000 Hz
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC		Frequency Range (±10 %)	0.1 to 20000 Hz 0.1 to 20000 Hz
Discharge Time Constant	0.5 to 2.0 sec	0.5 to 2.0 sec		Discharge Time Constant	>5 sec >5 sec
Settling Time (within 10% of bias)	<5 sec	<5 sec		Settling Time (within 10% of bias)	<45 sec <45 sec
Spectral Noise (1 Hz)	6400 μg/√Hz	62784 (μm/sec²)/√Hz	[1]	Supplied Accessory: Model ACS-4 Single-axis, low frequency phase and amplitude response calibration from 0.5 to 10 Hz	
Spectral Noise (10 Hz)	1400 μg/√Hz	13734 (μm/sec²)/√Hz	[1]	W - Water Resistant Cable	
Spectral Noise (100 Hz)	360 μg/√Hz	3532 (μm/sec²)/√Hz	[1]	Electrical Connector	Sealed Integral Cable Side Sealed Integral Cable Side
Spectral Noise (1 kHz)	128 μg/√Hz	1256 (μm/sec²)/√Hz	[1]	Electrical Connection Position	
Physical				Notes	
Sensing Element	Quartz	Quartz		[1] Typical.	
Sensing Geometry	Shear	Shear		[2] Zero-based, least-squares, straight line method.	
Housing Material	Titanium	Titanium		[3] Transverse sensitivity is typically ≤= 3%.	
Sealing	Hermetic	Hermetic		[4] See PCB Declaration of Conformance PS023 for details.	
Size (Hex x Height)	0.31 in x 0.43 in	7.9 mm x 10.9 mm		[5] Adhesive mounting base is not required. "Quick Bonding Gel" has maximum temperature range of 180 ° F (82°C).	
Weight	0.07 oz	2.0 gm	[1]	[6] ACS-4 starts at 1 Hz for sensitivities <20 mV/g.	
Electrical Connector	5-44 Coaxial	5-44 Coaxial		Supplied Accessories	
Electrical Connection Position	Side	Side		080A109 Petro Wax (1)	
Mounting Thread	5-40 Male	5-40 Male		080A15 Adhesive Mounting Base (1)	
Mounting Torque	8 to 12 in-lb	90 to 135 N-cm		ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (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.					
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Approved: EB		Spec Number: 353-2110-80			

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