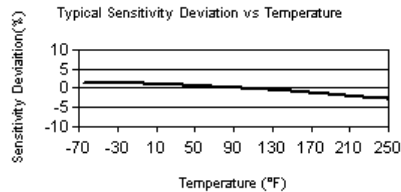


Model Number 353B33	ACCELEROMETER, ICP®			Revision N ECN #: 26810
Performance	ENGLISH	SI		Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)
Sensitivity (±5 %)	100 mV/g	10.19 mV/(m/s ²)	[2]	B - Low bias electronics [2]
Measurement Range	±50 g pk	±491 m/s ² pk		Output Bias Voltage 4.5 to 7.5 VDC 4.5 to 7.5 VDC
Frequency Range (±5 %)	1 to 4000 Hz	1 to 4000 Hz		Excitation Voltage 12 to 30 VDC 12 to 30 VDC
Frequency Range (±10 %)	0.7 to 6500 Hz	0.7 to 6500 Hz		Constant Current Excitation 1 to 20 mA 1 to 20 mA
Frequency Range (±3 dB)	0.35 to 12000 Hz	0.35 to 12000 Hz		Measurement Range ±30 g pk ±294 m/s ² pk
Resonant Frequency	≥22 kHz	≥22 kHz		J - Ground Isolated
Broadband Resolution (1 to 10000 Hz)	0.0005 g rms	0.005 m/s ² rms	[1]	Frequency Range (±5 %) 1 to 4000 Hz 1 to 4000 Hz
Non-Linearity	≤1 %	≤1 %	[3]	Frequency Range (±10 %) 0.7 to 6000 Hz 0.7 to 6000 Hz
Transverse Sensitivity	≤5 %	≤5 %	[4]	Resonant Frequency ≥18 kHz ≥18 kHz
				Electrical Isolation (Base) ≥10 ⁸ ohm ≥10 ⁸ ohm
Environmental				Q - Extended discharge time constant [2]
Overload Limit (Shock)	±10000 g pk	±98100 m/s ² pk		Frequency Range (±5 %) 0.1 to 4000 Hz 0.1 to 4000 Hz
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C		Frequency Range (±10 %) 0.07 to 6500 Hz 0.07 to 6500 Hz
Temperature Response	See Graph	See Graph	[1]	Discharge Time Constant ≥10 sec ≥10 sec
Base Strain Sensitivity	0.0002 g/με	0.002 (m/s ²)/με	[1]	Settling Time (within 10% of bias) <120 sec <120 sec
				Supplied Accessory: Model ACS-4 Single-axis, low frequency phase and amplitude response calibration from 0.5 to 10 Hz
Electrical				W - Water Resistant Cable
Excitation Voltage	18 to 30 VDC	18 to 30 VDC		Electrical Connector Sealed Integral Sealed Integral
Constant Current Excitation	2 to 20 mA	2 to 20 mA		Cable Cable
Output Impedance	≤100 ohm	≤100 ohm		Side Side
Output Bias Voltage	7.5 to 11.5 VDC	7.5 to 11.5 VDC		
Discharge Time Constant	0.5 to 2.0 sec	0.5 to 2.0 sec		Notes
Settling Time (within 10% of bias)	<25 sec	<25 sec		[1] Typical.
Spectral Noise (1 Hz)	320 μg/√Hz	3139 (μm/sec ²)/√Hz	[1]	[2] B and Q options supplied with a sensitivity tolerance of ± 10 %.
Spectral Noise (10 Hz)	70 μg/√Hz	687 (μm/sec ²)/√Hz	[1]	[3] Zero-based, least-squares, straight line method.
Spectral Noise (100 Hz)	18 μg/√Hz	177 (μm/sec ²)/√Hz	[1]	[4] Transverse sensitivity is typically ≤ 3%.
Spectral Noise (1 kHz)	6.4 μg/√Hz	63 (μm/sec ²)/√Hz	[1]	[5] See PCB Declaration of Conformance PS023 for details.
Physical				Supplied Accessories
Sensing Element	Quartz	Quartz		080A109 Petro Wax (1)
Sensing Geometry	Shear	Shear		080A12 Adhesive Mounting Base (1)
Housing Material	Titanium	Titanium		081B05 Mounting Stud (10-32 to 10-32) (1)
Sealing	Welded Hermetic	Welded Hermetic		ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)
Size (Hex x Height)	0.75 in x 0.93 in	19.1 mm x 23.6 mm		M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)
Weight	0.95 oz	27 gm	[1]	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack		
Electrical Connection Position	Side	Side		
Mounting Thread	10-32 Female	10-32 Female		



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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