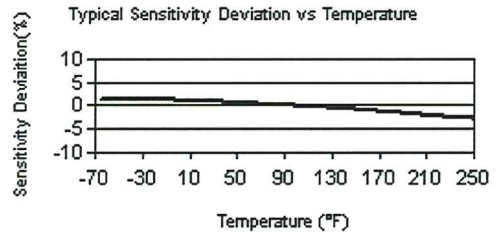


Model Number	ICP® ACCELEROMETER		Revision: N
353B18			ECN #: 35369
Performance	ENGLISH	SI	OPTIONAL VERSIONS
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s ²)	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
Measurement Range	± 500 g pk	± 4905 m/s ² pk	A - Adhesive Mount
Frequency Range(± 5 %)	1 to 10,000 Hz	1 to 10,000 Hz	Supplied Accessory : Model 080A90 Quick Bonding Gel (1) replaces Model 080A15
Frequency Range(± 10 %)	0.7 to 18,000 Hz	0.7 to 18,000 Hz	B - Low bias electronics
Frequency Range(± 3 dB)	0.35 to 30,000 Hz	0.35 to 30,000 Hz	Output Bias Voltage 4.5 to 7.5 VDC 4.5 to 7.5 VDC
Resonant Frequency	≥ 70 kHz	≥ 70 kHz	Excitation Voltage 12 to 30 VDC 12 to 30 VDC
Broadband Resolution(1 to 10,000 Hz)	0.005 g rms	0.05 m/s ² rms	Constant Current Excitation 1 to 20 mA 1 to 20 mA
Non-Linearity	≤ 1 %	≤ 1 %	Measurement Range ± 300 g pk ± 2943 m/s ² pk
Transverse Sensitivity	≤ 5 %	≤ 5 %	J - Ground Isolated
Environmental			Frequency Range(± 5 %) 1 to 8000 Hz 1 to 8000 Hz
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s ² pk	Frequency Range(± 10 %) 0.7 to 15,000 Hz 0.7 to 15,000 Hz
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	Resonant Frequency ≥ 56 kHz ≥ 56 kHz
Temperature Response	See Graph	See Graph	Electrical Isolation(Base) ≥ 10 ⁸ ohm ≥ 10 ⁸ ohm
Base Strain Sensitivity	≤ 0.003 g/με	≤ 0.03 (m/s ²)/με	Size - Hex x Height 3/8 in x 0.82 in 3/8 in x 20.8 mm
Electrical			Weight 0.10 oz 3.0 gm [1]
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	M - Metric Mount
Constant Current Excitation	2 to 20 mA	2 to 20 mA	Mounting Thread M3 x 0.50 Male M3 x 0.50 Male
Output Impedance	≤ 100 ohm	≤ 100 ohm	Supplied Accessory : Model M080A15 Adhesive Mounting Base (1) replaces Model 080A15
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	Q - Extended discharge time constant
Discharge Time Constant	0.5 to 2.0 sec	0.5 to 2.0 sec	Frequency Range(± 5 %) 0.15 to 10,000 Hz 0.15 to 10,000 Hz
Spectral Noise(1 Hz)	2800 μg/√Hz	27,468 (μm/sec ²)/√Hz	Frequency Range(± 10 %) 0.1 to 18,000 Hz 0.1 to 18,000 Hz
Spectral Noise(10 Hz)	700 μg/√Hz	6867 (μm/sec ²)/√Hz	Discharge Time Constant >5 sec >5 sec
Spectral Noise(100 Hz)	180 μg/√Hz	1766 (μm/sec ²)/√Hz	Settling Time(within 10% of bias) <45 sec <45 sec
Spectral Noise(1 kHz)	64 μg/√Hz	628 (μm/sec ²)/√Hz	Supplied Accessory : Model ACS-97 Single axis, low frequency phase and amplitude response cal from 1 to 10 Hz (1)
Physical			W - Water Resistant Cable
Sensing Element	Quartz	Quartz	Electrical Connector Sealed Integral Cable Sealed Integral Cable
Sensing Geometry	Shear	Shear	Electrical Connection Position Top Top
Housing Material	Titanium	Titanium	NOTES:
Sealing	Welded Hermetic	Welded Hermetic	[1] Typical.
Size (Hex x Height)	9/32 in x 0.74 in	9/32 in x 18.8 mm	[2] Zero-based, least-squares, straight line method.
Weight	0.06 oz	1.8 gm	[3] Transverse sensitivity is typically ≤ 3%.
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	[4] See PCB Declaration of Conformance PS023 for details.
Electrical Connection Position	Top	Top	SUPPLIED ACCESSORIES:
Mounting Thread	5-40 Male	5-40 Male	Model 080A109 Petro Wax (1)
Mounting Torque	8 to 12 in-lb	90 to 135 N-cm	Model 080A15 Adhesive Mounting Base (1)
			Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)
			Entered: <i>Yemw</i> Engineer: <i>BAM</i> Sales: <i>WDC</i> Approved: <i>EB</i> Spec Number:
			Date: <i>3/24/11</i> Date: <i>3/24/11</i> Date: <i>3/24/11</i> Date: <i>3/24/11</i> 353-2180-80
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[4]



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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