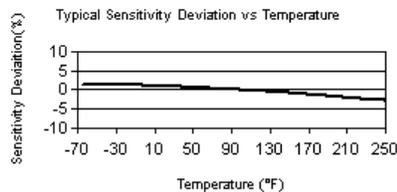


Model Number 353B04	<b>ACCELEROMETER, ICP®</b>		Revision K ECN #: 35369
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>	<b>Optional Versions</b> (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)
Sensitivity (±5 %)	10 mV/g	1.02 mV/(m/s <sup>2</sup> )	<b>B</b> - Low bias electronics
Measurement Range	±500 g pk	±4905 m/s <sup>2</sup> pk	Output Bias Voltage
Frequency Range (±5 %)	1 to 7000 Hz	1 to 7000 Hz	4.5 to 7.5 VDC
Frequency Range (±10 %)	0.7 to 11000 Hz	0.7 to 11000 Hz	Excitation Voltage
Frequency Range (±3 dB)	0.35 to 20000 Hz	0.35 to 20000 Hz	12 to 30 VDC
Resonant Frequency	≥38 kHz	≥38 kHz	Constant Current Excitation
Broadband Resolution (1 to 10000 Hz)	0.003 g rms	0.03 m/s <sup>2</sup> rms	1 to 20 mA
Non-Linearity	≤1 %	≤1 %	Measurement Range
Transverse Sensitivity	≤5 %	≤5 %	±300 g pk
<b>Environmental</b>			<b>J</b> - Ground Isolated
Overload Limit (Shock)	±10000 g pk	±98100 m/s <sup>2</sup> pk	Frequency Range (±5 %)
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C	1 to 5000 Hz
Base Strain Sensitivity	≤0.0005 g/με	≤0.005 (m/s <sup>2</sup> )/με	Frequency Range (±10 %)
<b>Electrical</b>			0.7 to 9000 Hz
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	Resonant Frequency
Constant Current Excitation	2 to 20 mA	2 to 20 mA	≥22 kHz
Output Impedance	≤100 Ohm	≤100 Ohm	Electrical Isolation (Base)
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	≥10 <sup>8</sup> Ohm
Discharge Time Constant	0.5 to 2.6 sec	0.5 to 2.6 sec	<b>Q</b> - Extended discharge time constant
Settling Time (within 10% of bias)	<5 sec	<5 sec	Frequency Range (±5 %)
Spectral Noise (1 Hz)	2800 μg/&#8730;Hz	27468 (μm/sec <sup>2</sup> ) /&#8730;Hz	0.1 to 7000 Hz
Spectral Noise (10 Hz)	700 μg/&#8730;Hz	6867 (μm/sec <sup>2</sup> ) /&#8730;Hz	Frequency Range (±10 %)
Spectral Noise (100 Hz)	180 μg/&#8730;Hz	1766 (μm/sec <sup>2</sup> ) /&#8730;Hz	0.07 to 11000 Hz
Spectral Noise (1 kHz)	64 μg/&#8730;Hz	628 (μm/sec <sup>2</sup> ) /&#8730;Hz	Discharge Time Constant
<b>Physical</b>			>10 sec
Size (Height)	1.14 in	29.0 mm	Settling Time (within 10% of bias)
Weight	0.38 oz	10.5 gm	45 sec
Sensing Element	Quartz	Quartz	Supplied Accessory: Model ACS-4 Single-axis, low frequency phase and amplitude response calibration from 0.5 to 10 Hz
Size (Hex)	0.50 in	12.7 mm	<b>W</b> - Water Resistant Cable
Sensing Geometry	Shear	Shear	Electrical Connector
Housing Material	Titanium	Titanium	Sealed Integral Cable
Sealing	Welded Hermetic	Welded Hermetic	Sealed Integral Cable
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	Electrical Connection Position
Electrical Connection Position	Top	Top	Top
Mounting Thread	10-32 Female	10-32 Female	<b>Notes</b>
			[1] Typical.
			[2] B and Q options supplied with a sensitivity tolerance of ± 10 %.
			[3] Zero-based, least-squares, straight line method.
			[4] Transverse sensitivity is typically ≤= 3%.
			[5] See PCB Declaration of Conformance PS023 for details.
			<b>Supplied Accessories</b>
			080A Adhesive Mounting Base (1)
			080A109 Petro Wax (1)
			081B05 Mounting Stud (10-32 to 10-32) (1)
			ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)
			M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)
			Entered: BAM
			Engineer: WDC
			Sales: ECB
			Spec Number:
			Date: 03/25/2011
			Date: 03/25/2011
			Date: 03/25/2011
			<b>353-2040-80</b>
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*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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