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TECHNOLOGY GROUP

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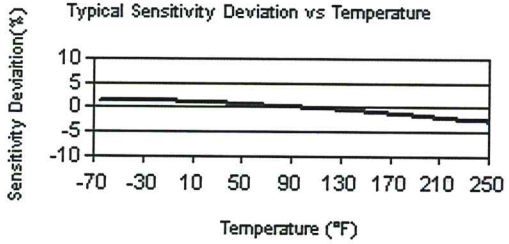
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Model Number	ICP® ACCELEROMETER	Revision: K
353B04		ECN #: 35369

Performance	ENGLISH	SI	
Sensitivity(± 5 %)	10 mV/g	1.02 mV/(m/s²)	[2]
Measurement Range	± 500 g pk	± 4905 m/s² pk	
Frequency Range(± 5 %)	1 to 7000 Hz	1 to 7000 Hz	
Frequency Range(± 10 %)	0.7 to 11,000 Hz	0.7 to 11,000 Hz	
Frequency Range(± 3 dB)	0.35 to 20,000 Hz	0.35 to 20,000 Hz	
Resonant Frequency	≥ 38 kHz	≥ 38 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.003 g rms	0.03 m/s² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[4]
Environmental			
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s² pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	≤ 0.0005 g/με	≤ 0.005 (m/s²)/με	[1]
Electrical			
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 100 ohm	≤ 100 ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.5 to 2.6 sec	0.5 to 2.6 sec	
Settling Time(within 10% of bias)	<5 sec	<5 sec	
Spectral Noise(1 Hz)	2800 μg/√Hz	27,468 (μm/sec²)/√Hz	[1]
Spectral Noise(10 Hz)	700 μg/√Hz	6867 (μm/sec²)/√Hz	[1]
Spectral Noise(100 Hz)	180 μg/√Hz	1766 (μm/sec²)/√Hz	[1]
Spectral Noise(1 kHz)	64 μg/√Hz	628 (μm/sec²)/√Hz	[1]
Physical			
Sensing Element	Quartz	Quartz	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Size (Hex x Height)	0.50 in x 1.14 in	12.7 mm x 29.0 mm	
Weight	0.38 oz	10.5 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Top	Top	
Mounting Thread	10-32 Female	10-32 Female	

CE [5]

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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OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

B - Low bias electronics		
Output Bias Voltage	4.5 to 7.5 VDC	4.5 to 7.5 VDC
Excitation Voltage	12 to 30 VDC	12 to 30 VDC
Constant Current Excitation	1 to 20 mA	1 to 20 mA
Measurement Range	± 300 g pk	± 2943 m/s² pk

J - Ground Isolated		
Frequency Range(± 5 %)	1 to 5000 Hz	1 to 5000 Hz
Frequency Range(± 10 %)	0.7 to 9000 Hz	0.7 to 9000 Hz
Resonant Frequency	≥ 22 kHz	≥ 22 kHz
Electrical Isolation(Base)	≥ 10^8 ohm	≥ 10^8 ohm
Size - Hex x Height	0.50 in x 1.19 in	12.7 mm x 30.2 mm

Q - Extended discharge time constant		
Frequency Range(± 5 %)	0.1 to 7000 Hz	0.1 to 7000 Hz
Frequency Range(± 10 %)	0.07 to 11,000 Hz	0.07 to 11,000 Hz
Discharge Time Constant	>10 sec	>10 sec
Settling Time(within 10% of bias)	45 sec	45 sec

Supplied Accessory : Model ACS-4 Single axis, low frequency phase and amplitude response cal from 0.5 to 10 Hz

W - Water Resistant Cable		
Electrical Connector	Sealed Integral Cable	Sealed Integral Cable
Electrical Connection Position	Top	Top

NOTES:
[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.

SUPPLIED ACCESSORIES:
Model 080A Adhesive Mounting Base (1)
Model 080A109 Petro Wax (1)
Model 081B05 Mounting Stud (10-32 to 10-32) (1)
Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)
Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

Entered: YDMW	Engineer: BAM	Sales: WDC	Approved: EB	Spec Number:
Date: 3/24/11	Date: 3/24/11	Date: 3/24/11	Date: 3/24/11	353-2040-80

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