
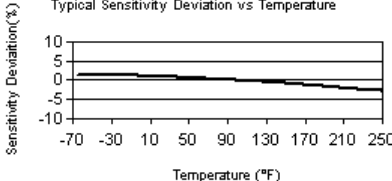


Model Number <b>353B04</b>	<b>ACCELEROMETER, ICP®</b>		Revision K ECN #: 35369
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>	<b>Optional Versions</b> (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)
Sensitivity (±5 %)	10 mV/g	1.02 mV/(m/s <sup>2</sup> )	[2]
Measurement Range	±500 g pk	±4905 m/s <sup>2</sup> pk	
Frequency Range (±5 %)	1 to 7000 Hz	1 to 7000 Hz	
Frequency Range (±10 %)	0.7 to 11000 Hz	0.7 to 11000 Hz	
Frequency Range (±3 dB)	0.35 to 20000 Hz	0.35 to 20000 Hz	
Resonant Frequency	≥38 kHz	≥38 kHz	
Broadband Resolution (1 to 10000 Hz)	0.003 g rms	0.03 m/s <sup>2</sup> rms	[1]
Non-Linearity	≤1 %	≤1 %	[3]
Transverse Sensitivity	≤5 %	≤5 %	[4]
<b>Environmental</b>			
Overload Limit (Shock)	±10000 g pk	±98100 m/s <sup>2</sup> pk	
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C	
Base Strain Sensitivity	≤0.0005 g/με	≤0.005 (m/s <sup>2</sup> )/με	[1]
<b>Electrical</b>			
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	27468 (μm/sec <sup>2</sup> /√Hz)	[1]
Spectral Noise (10 Hz)	700 μg/√Hz	6867 (μm/sec <sup>2</sup> /√Hz)	[1]
Spectral Noise (100 Hz)	180 μg/√Hz	1766 (μm/sec <sup>2</sup> /√Hz)	[1]
Spectral Noise (1 kHz)	64 μg/√Hz	628 (μm/sec <sup>2</sup> /√Hz)	[1]
<b>Physical</b>			
Size (Height)	1.14 in	29.0 mm	
Weight	0.38 oz	10.5 gm	[1]
Sensing Element	Quartz	Quartz	
Size (Hex)	0.50 in	12.7 mm	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Top	Top	
Mounting Thread	10-32 Female	10-32 Female	



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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**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**

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: DMW	Engineer: BAM	Sales: WDC	Approved: ECB	Spec Number:
Date: 03/25/2011	Date: 03/25/2011	Date: 03/25/2011	Date: 03/25/2011	<b>353-2040-80</b>



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