
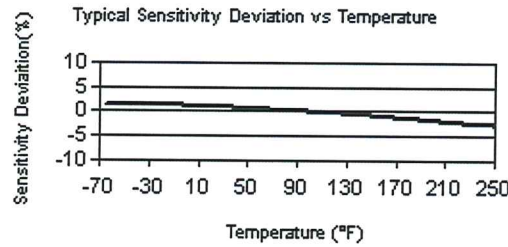


Model Number <b>353B03</b>	<b>ICP® ACCELEROMETER</b>			Revision: G ECN #: 35369
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>		<b>OPTIONAL VERSIONS</b>
Sensitivity(± 5 %)	10 mV/g	1.02 mV/(m/s²)	[2]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
Measurement Range	± 500 g pk	± 4905 m/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]	
<b>Environmental</b>				<b>B - Low bias electronics</b>
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s² pk		Output Bias Voltage 4.5 to 7.5 VDC 4.5 to 7.5 VDC
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C		Excitation Voltage 12 to 30 VDC 12 to 30 VDC
Temperature Response	See Graph	See Graph	[1]	Constant Current Excitation 1 to 20 mA 1 to 20 mA
Base Strain Sensitivity	≤ 0.0005 g/με	≤ 0.005 (m/s²)/με	[1]	Measurement Range ± 300 g pk ± 2943 m/s² pk
<b>Electrical</b>				<b>J - Ground Isolated</b>
Excitation Voltage	18 to 30 VDC	18 to 30 VDC		Frequency Range(± 5 %) 1 to 5000 Hz 1 to 5000 Hz
Constant Current Excitation	2 to 20 mA	2 to 20 mA		Frequency Range(± 10 %) 0.7 to 9000 Hz 0.7 to 9000 Hz
Output Impedance	≤ 100 ohm	≤ 100 ohm		Resonant Frequency ≥ 22 kHz ≥ 22 kHz
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC		Electrical Isolation(Base) ≥ 10⁸ ohm ≥ 10⁸ ohm
Discharge Time Constant	0.5 to 2.6 sec	0.5 to 2.6 sec		Size - Hex x Height 0.50 in x 0.86 in 12.7 mm x 21.8 mm
Settling Time(within 10% of bias)	<5 sec	<5 sec		<b>Q - Extended discharge time constant</b>
Spectral Noise(1 Hz)	2800 μg/√Hz	27,468 (μm/sec²)/√Hz	[1]	Frequency Range(± 5 %) 0.1 to 7000 Hz 0.1 to 7000 Hz
Spectral Noise(10 Hz)	700 μg/√Hz	6867 (μm/sec²)/√Hz	[1]	Frequency Range(± 10 %) 0.07 to 11,000 Hz 0.07 to 11,000 Hz
Spectral Noise(100 Hz)	180 μg/√Hz	1766 (μm/sec²)/√Hz	[1]	Discharge Time Constant >10 sec >10 sec
Spectral Noise(1 kHz)	64 μg/√Hz	628 (μm/sec²)/√Hz	[1]	Settling Time(within 10% of bias) 45 sec 45 sec
<b>Physical</b>				Supplied Accessory : Model ACS-4 Single axis, low frequency phase and amplitude response cal from 0.5 to 10 Hz (1)
Sensing Element	Quartz	Quartz		<b>W - Water Resistant Cable</b>
Sensing Geometry	Shear	Shear		Electrical Connector Sealed Integral Cable Sealed Integral Cable
Housing Material	Titanium	Titanium		Electrical Connection Position Side Side
Sealing	Welded Hermetic	Welded Hermetic		
Size (Hex x Height)	0.50 in x 0.81 in	12.7 mm x 20.6 mm	[1]	
Weight	0.38 oz	10.5 gm		
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack		
Electrical Connection Position	Side	Side		
Mounting Thread	10-32 Female	10-32 Female		
<div>  <div>[5]</div> </div> <div> <p>Typical Sensitivity Deviation vs Temperature</p>  </div>				
<p>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.</p> <p>ICP® is a registered trademark of PCB Group, Inc.</p>				
<p><b>SUPPLIED ACCESSORIES:</b> 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)</p>				
Entered: <i>Om</i>	Engineer: <i>DAW</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>	353-2030-80
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