

Model Number 352C34	ACCELEROMETER, ICP®			Revision J ECN #: 26069
<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 (±10 %)	100 mV/g	10.2 mV/(m/s²)	<b>HT</b> - High temperature, extends normal operation temperatures	
Measurement Range	±50 g pk	±490 m/s² pk	Frequency Range (5 %)	
Frequency Range (±5 %)	0.5 to 10000 Hz	0.5 to 10000 Hz	6 to 10000 Hz	
Frequency Range (±10 %)	0.3 to 15000 Hz	0.3 to 15000 Hz	Frequency Range (10 %)	
Resonant Frequency	≥50 kHz	≥50 kHz	4.5 to 15000 Hz	
Broadband Resolution (1 to 10000 Hz)	0.00015 g rms	0.0015 m/s² rms	Broadband Resolution (1 to 10000 Hz)	
Non-Linearity	≤1 %	≤1 %	0.0009 g rms	
Transverse Sensitivity	≤5 %	≤5 %	0.009 m/s² rms	
<b>Environmental</b>			Hz)	
Overload Limit (Shock)	±5000 g pk	±49000 m/s² pk	Temperature Range (Operating)	
Temperature Range (Operating)	-65 to +200 °F	-54 to +93 °C	-65 to +325 °F	
Temperature Response	See Graph	See Graph	Excitation Voltage	
Base Strain Sensitivity	0.003 g/µε	0.029 (m/s²)/µε	22 to 30 VDC	
<b>Electrical</b>			Discharge Time Constant	
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	0.07 to 0.15 sec	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	Spectral Noise (1 Hz)	
Output Impedance	≤200 ohm	≤200 ohm	107 µg/√Hz	
Output Bias Voltage	7 to 12 VDC	7 to 12 VDC	Spectral Noise (10 Hz)	
Discharge Time Constant	1.0 to 2.5 sec	1.0 to 2.5 sec	58 µg/√Hz	
Settling Time (within 10% of bias)	<10 sec	<10 sec	Spectral Noise (100 Hz)	
Spectral Noise (1 Hz)	39 µg/√Hz	380 (µm/sec²)/√Hz	41 µg/√Hz	
Spectral Noise (10 Hz)	11 µg/√Hz	110 (µm/sec²)/√Hz	Spectral Noise (1000 Hz)	
Spectral Noise (100 Hz)	3.4 µg/√Hz	33 (µm/sec²)/√Hz	9.8 µg/√Hz	
Spectral Noise (1 kHz)	1.4 µg/√Hz	14 (µm/sec²)/√Hz	Output Bias Voltage	
<b>Physical</b>			10 to 15 VDC	
Sensing Element	Ceramic	Ceramic	Supplied Accessory: Model ACS-68 Single Axis Amplitude Response Calibration from 5 Hz to upper 5% plotted on dB scale replaces Model ACS-1	
Sensing Geometry	Shear	Shear	<b>J</b> - Ground Isolated	
Housing Material	Titanium	Titanium	Frequency Range (5 %)	
Sealing	Hermetic	Hermetic	0.5 to 9000 Hz	
Size (Hex x Height)	0.44 in x 0.88 in	11.2 mm x 22.4 mm	Frequency Range (10 %)	
Weight	0.20 oz	5.8 gm	0.3 to 14000 Hz	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	Resonant Frequency	
Electrical Connection Position	Top	Top	≥40 kHz	
Mounting Thread	10-32 Female	10-32 Female	Electrical Isolation (Base)	
Mounting Torque	10 to 20 in-lb	113 to 226 N-cm	>10⁸ ohm	
			Size (Hex x Height)	
			0.44 in x 0.93 in	
			mm	
			Weight	
			0.21 oz	
			6.0 gm	
			<b>T</b> - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4	
			<b>TLA</b> - TEDS LMS International - Free Format	
			<b>TLB</b> - TEDS LMS International - Automotive Format	
			<b>TLC</b> - TEDS LMS International - Aeronautical Format	
			<b>TLD</b> - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4	
			Temperature Range	
			-10 to +200 °F	
			Excitation Voltage	
			20 to 30 VDC	
			Output Bias Voltage	
			7.5 to 13 VDC	
			<b>W</b> - Water Resistant Cable	
			Electrical Connector	
			Sealed Integral Cable	
			Sealed Integral Cable	
			Electrical Connection Position	
			Top	
			<b>Notes</b>	
			[1] Typical.	
			[2] TEDS option adds 1.0 VDC to bias voltage.	
			[3] 200°F to 325°F data valid with HT option only.	
			[4] Zero-based, least-squares, straight line method.	
			[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). ( )	
			M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)	
			Entered: BLS	
			Engineer: JJB	
			Sales: WDC	
			Approved: BAM	
			Spec Number:	

CE

[5]

Typical Sensitivity Deviation vs Temperature

Sensitivity Deviation (%)

20

10

0

-10

-20

-70

-20

30

80

130

180

230

280

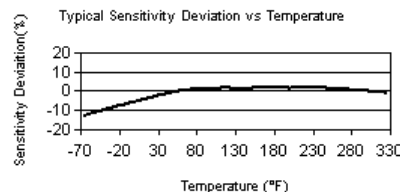
330

Temperature (°F)

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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