

Model Number

352C23

## ICP® ACCELEROMETER

Revision: E

ECN #: 42197

**Performance**

	<b>ENGLISH</b>	<b>SI</b>	
Sensitivity(± 20 %)	5 mV/g	0.5 mV/(m/s <sup>2</sup> )	
Measurement Range	± 1000 g pk	± 9810 m/s <sup>2</sup> pk	
Frequency Range(± 5 %)	2.0 to 10,000 Hz	2.0 to 10,000 Hz	
Frequency Range(± 10 %)	1.5 to 15,000 Hz	1.5 to 15,000 Hz	
Frequency Range(± 3 dB)	0.7 to 25,000 Hz	0.7 to 25,000 Hz	
Resonant Frequency	≥ 70 kHz	≥ 70 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.003 g rms	0.03 m/s <sup>2</sup> rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	

**Environmental**

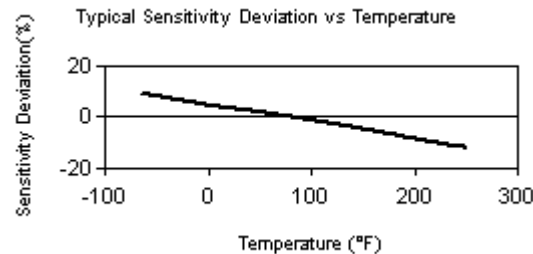
Overload Limit(Shock)	± 10,000 g pk	± 98,000 m/s <sup>2</sup> pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]

**Electrical**

Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 200 Ohm	≤ 200 Ohm	
Output Bias Voltage	7 to 12 VDC	7 to 12 VDC	
Discharge Time Constant	0.24 to 1.0 sec	0.24 to 1.0 sec	
Settling Time(within 10% of bias)	<3 sec	<3 sec	
Spectral Noise(1 Hz)	1500 µg/√Hz	14,715 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(10 Hz)	400 µg/√Hz	3924 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	120 µg/√Hz	1177 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	30 µg/√Hz	294 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(10 kHz)	20 µg/√Hz	196 (µm/sec <sup>2</sup> )/√Hz	[1]
Electrical Isolation(Base)	>10 <sup>8</sup> Ohm	>10 <sup>8</sup> Ohm	

**Physical**

Size (Height x Length x Width)	.11 in x 0.34 in x 0.16 in	2.8 mm x 8.6 mm x 4.1 mm	
Weight	0.007 oz	0.2 gm	[1]
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Anodized Aluminum	Anodized Aluminum	
Sealing	Epoxy	Epoxy	
Electrical Connector	3-56 Coaxial Jack	3-56 Coaxial Jack	
Electrical Connection Position	Side	Side	
Mounting	Adhesive	Adhesive	



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.

**NOTES:**

- [1] Typical.  
[2] Zero-based, least-squares, straight line method.  
[3] See PCB Declaration of Conformance PS023 for details.

**SUPPLIED ACCESSORIES:**

- Model 030A10 Coax Cable, 10 ft (3 m), 3-56 plug to 10-32 plug. (1)  
Model 039A26 Removal Tool (1)  
Model 080A109 Petro Wax (1)  
Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)

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