

Model Number

352C43

ICP® ACCELEROMETER

Revision: D

ECN #: 27372

Performance

	ENGLISH	SI	
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s ²)	
Measurement Range	± 500 g pk	± 4905 m/s ² pk	
Frequency Range(± 5 %)	1 to 8000 Hz	1 to 8000	
Frequency Range(± 10 %)	0.5 to 10,000 Hz	0.5 to 10,000	
Frequency Range(± 3 dB)	0.3 to 13,000 Hz	0.3 to 13,000	
Resonant Frequency	≥ 30 kHz	≥ 30 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.0008 g rms	0.008 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[3]

Environmental

Overload Limit	± 5000 g pk	± 49,050 m/s ² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]

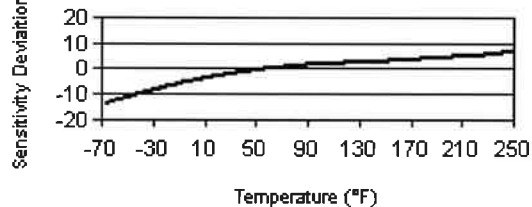
Electrical

Excitation Voltage	22 to 30 VDC	22 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 200 ohm	≤ 200 ohm	
Output Bias Voltage	8 to 15 VDC	8 to 15 VDC	
Discharge Time Constant	0.5 to 2.0 sec	0.5 to 2.0 sec	
Settling Time(within 10% of bias)	<10 sec	<10 sec	
Spectral Noise(1 Hz)	200 µg/√Hz	1962 (µm/s ²)/√Hz	[1]
Spectral Noise(10 Hz)	60 µg/√Hz	589 (µm/s ²)/√Hz	[1]
Spectral Noise(100 Hz)	15 µg/√Hz	147 (µm/s ²)/√Hz	[1]
Spectral Noise(1 kHz)	8 µg/√Hz	79 (µm/s ²)/√Hz	[1]
Electrical Isolation	>10 ⁸ ohm	>10 ⁸ ohm	

Physical

Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Size (Hex x Height)	0.438 in x 0.42 in	11.1 mm x 10.7 mm	
Weight	0.10 oz	3.0 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Top	Top	
Mounting	Adhesive	Adhesive	

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.

NOTES:

- [1] Typical.
[2] Zero-based, least-squares, straight line method.
[3] Transverse sensitivity is typically ≤ 3%.
[4] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

- Model 080A109 Petro Wax (1)
Model 080A90 Quick Bonding Gel (1)
Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)

Entered: BLS	Engineer: BM	Sales: RJL	Approved: EV	Spec Number:
Date: 9-24-07	Date: 9-21-07	Date: 9-21-07	Date: 9-21-07	17202

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