

Model Number
333B52

ACCELEROMETER, ICP®

Revision D
ECN #: 17564

Performance

	ENGLISH	SI
Sensitivity (±10 %)	1000 mV/g	102 mV/(m/s ²)
Measurement Range	±5 g pk	±49 m/s ² pk
Frequency Range (±5 %)	0.5 to 3000 Hz	0.5 to 3000 Hz
Resonant Frequency	≥20 kHz	≥20 kHz
Phase Response (±5 °) (at 70°F [21°C])	2.5 to 3000 Hz	2.5 to 3000 Hz
Broadband Resolution (1 to 10000 Hz)	0.00005 g rms	0.0005 m/s ² rms
Non-Linearity	≤1 %	≤1 %
Transverse Sensitivity	≤5 %	≤5 %

Environmental

	ENGLISH	SI
Overload Limit	±4000 g pk	±39000 m/s ² pk
Temperature Range	0 to +150 °F	-18 to +66 °C
Temperature Response	See Graph	See Graph
Base Strain Sensitivity	0.01 g/με	0.1 (m/s ²)/με

Electrical

	ENGLISH	SI
Excitation Voltage	18 to 30 VDC	18 to 30 VDC
Constant Current Excitation	2 to 20 mA	2 to 20 mA
Output Impedance	≤500 ohm	≤500 ohm
Output Bias Voltage	7 to 12 VDC	7 to 12 VDC
Discharge Time Constant	0.7 to 2.0 sec	0.7 to 2.0 sec
Spectral Noise (10 Hz)	3.8 μg/√Hz	37 (μm/sec ²)/√Hz
Spectral Noise (100 Hz)	1.1 μg/√Hz	11 (μm/sec ²)/√Hz
Spectral Noise (1 kHz)	0.4 μg/√Hz	3.9 (μm/sec ²)/√Hz

Physical

	ENGLISH	SI
Sensing Element	Ceramic	Ceramic
Sensing Geometry	Shear	Shear
Housing Material	Titanium	Titanium
Sealing	Hermetic	Hermetic
Size (Length x Width)	0.68 in x 0.45 in	17.3 mm x 11.4 mm
Weight	0.26 oz	7.5 gm
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack
Electrical Connection Position	Side	Side
Mounting	Adhesive	Adhesive

Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

T - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4

TLA - TEDS LMS International - Free Format

TLB - TEDS LMS International - Automotive Format

TLC - TEDS LMS International - Aeronautical Format

Output Bias Voltage 7.5 to 13 VDC 7.5 to 13 VDC

Notes

[1] Typical.

[2] Zero-based, least-squares, straight line method.

[3] Transverse sensitivity is typically ≤ 3%.

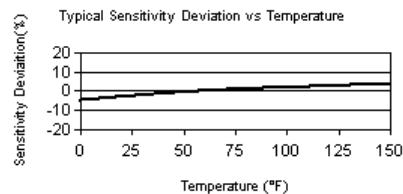
[4] See PCB Declaration of Conformance PS023 for details.

Supplied Accessories

080A109 Petro Wax (1)

080A90 Quick Bonding Gel (1)

ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)



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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