

Model Number
352A24

ACCELEROMETER, ICP®

Revision C
ECN #: 27171

Performance

	ENGLISH	SI
Sensitivity (±10 %)	100 mV/g	10.2 mV/(m/s ²)
Measurement Range	±50 g pk	±490 m/s ² pk
Frequency Range (±5 %)	1.0 to 8000 Hz	1.0 to 8000 Hz
Frequency Range (±10 %)	0.8 to 10000 Hz	0.8 to 10000 Hz
Frequency Range (±3 dB)	0.4 to 12000 Hz	0.4 to 12000 Hz
Resonant Frequency	≥30 kHz	≥30 kHz
Broadband Resolution (1 to 10000 Hz)	0.0002 g rms	0.002 m/s ² rms
Non-Linearity	≤1 %	≤1 %
Transverse Sensitivity	≤5 %	≤5 %

Environmental

Overload Limit (Shock)	±5000 g pk	±49050 m/s ² pk
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C

Electrical

Excitation Voltage	18 to 30 VDC	18 to 30 VDC
Constant Current Excitation	2 to 20 mA	2 to 20 mA
Output Impedance	≤300 Ohm	≤300 Ohm
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC
Discharge Time Constant	0.4 to 1.5 sec	0.4 to 1.5 sec
Settling Time (within 10% of bias)	<8 sec	<8 sec
Spectral Noise (1 Hz)	80 µg/√Hz	785 (µm/sec ² /√Hz)
Spectral Noise (10 Hz)	15 µg/√Hz	147 (µm/sec ² /√Hz)
Spectral Noise (100 Hz)	4 µg/√Hz	39 (µm/sec ² /√Hz)
Spectral Noise (1 kHz)	1 µg/√Hz	9.8 (µm/sec ² /√Hz)
Electrical Isolation (Base)	≥10 ⁸ Ohm	≥10 ⁸ Ohm

Physical

Size (Height)	0.19 in	4.8 mm
Weight	0.03 oz	0.8 gm
Sensing Element	Ceramic	Ceramic
Sensing Geometry	Shear	Shear
Housing Material	Anodized Aluminum	Anodized Aluminum
Sealing	Epoxy	Epoxy
Size (Length x Width)	0.48 in x 0.28 in	12.2 mm x 7.1 mm
Electrical Connector	3-56 Coaxial Jack	3-56 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.)

RH - RoHS Compliant

Supplied Accessory: Model RH030A10 Coax Cable, 10 ft (3 m), 3-56 plug to 10-32 plug, RoHS compliant. replaces Model 030A10

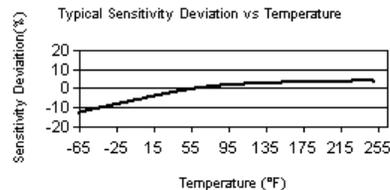
Notes

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

Supplied Accessories

- 030A10 Coax Cable, 10 ft (3 m), 3-56 plug to 10-32 plug. (1)
- 039A28 Removal Tool (1)
- 080A109 Petro Wax (1)
- ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)

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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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