

Model Number
352A56

ICP® ACCELEROMETER

Revision: E
ECN #: 33003

	ENGLISH	SI	
Performance			
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s ²)	
Measurement Range	± 50 g pk	± 490 m/s ² pk	
Frequency Range(± 5 %)	0.5 to 10,000 Hz	0.5 to 10,000 Hz	
(± 10 %)	0.3 to 15,000 Hz	0.3 to 15,000 Hz	
Resonant Frequency	≥ 45 kHz	≥ 45 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.0006 g rms	0.006 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
TEDS Compliant	Yes	Yes	[3]
Environmental			
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s ² pk	
Temperature Range(Operating)	-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	8.5 to 15.5 VDC	8.5 to 15.5 VDC	
Discharge Time Constant	0.5 to 1.5 sec	0.5 to 1.5 sec	
Settling Time(within 10% of bias)	<5 sec	<5 sec	
Spectral Noise(1 Hz)	120 µg/√Hz	1180 (µm/sec ²)/√Hz	[1]
(10 Hz)	40 µg/√Hz	392 (µm/sec ²)/√Hz	[1]
(100 Hz)	30 µg/√Hz	294 (µm/sec ²)/√Hz	[1]
(1 kHz)	10 µg/√Hz	98.1 (µm/sec ²)/√Hz	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.26 in x 0.57 in x 0.30 in	6.6 mm x 14.5 mm x 7.6 mm	[1]
Weight	0.06 oz	1.8 gm	
Electrical Connector	5-44 Coaxial	5-44 Coaxial	
Electrical Connection Position	Side	Side	
Mounting	Adhesive	Adhesive	

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.

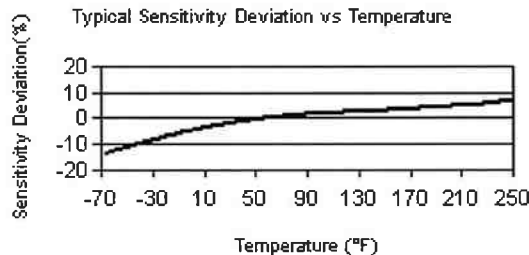
- TLA - TEDS LMS International - Free Format
- TLB - TEDS LMS International - Automotive Format
- TLC - TEDS LMS International - Aeronautical Format
- TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4

NOTES:

- [1] Typical.
- [2] Zero-based, least-squares, straight line method.
- [3] TEDS Capable Digital Memory and Communication, compliant with IEEE P1451.4
- [4] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

- Model 039A31 Removal Tool (1)
- Model 080A109 Petro Wax (1)
- Model 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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Entered: JH	Engineer: BM	Sales: WDC	Approved: EB	Spec Number:
Date: 5-26-10	Date: 5-19-10	Date: 5-19-10	Date: 5-21-10	20500

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