

Model Number
356A34

TRIAxIAL ICP® ACCELEROMETER

Revision: D
ECN #: 31104

Performance	ENGLISH	SI
Sensitivity(± 10 %)	50 mV/g	5.1 mV/(m/s ²)
Measurement Range	± 100 g pk	± 981 m/s ² pk
Frequency Range(± 5 %)	1 to 4000 Hz	1 to 4000 Hz
(± 10 %)	0.7 to 5000 Hz	0.7 to 5000 Hz
Resonant Frequency	≥ 25 kHz	≥ 25 kHz
Broadband Resolution(1 to 10,000 Hz)	0.0003 g rms	0.003 m/s ² rms [2]
Non-Linearity	≤ 1 %	≤ 1 % [3]
Transverse Sensitivity	≤ 5 %	≤ 5 %
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
Base Strain Sensitivity	0.001 g/µε	0.01 (m/s ²)/µε [2]
Electrical		
Excitation Voltage	23 to 30 VDC	23 to 30 VDC [1]
Constant Current Excitation	2 to 20 mA	2 to 20 mA
Output Impedance	≤ 200 ohm	≤ 200 ohm
Output Bias Voltage	7 to 16 VDC	7 to 16 VDC
Discharge Time Constant	0.4 to 1.5 sec	0.4 to 1.5 sec
Settling Time(within 10% of bias)	<5 sec	<5 sec
Spectral Noise(1 Hz)	190 µg/√Hz	1864 (µm/sec ²)/√Hz [2]
(10 Hz)	35 µg/√Hz	345 (µm/sec ²)/√Hz [2]
(100 Hz)	20 µg/√Hz	196 (µm/sec ²)/√Hz [2]
(1 kHz)	3 µg/√Hz	29.4 (µm/sec ²)/√Hz [2]
(10 kHz)	3 µg/√Hz	29.4 (µm/sec ²)/√Hz [2]
Physical		
Sensing Element	Ceramic	Ceramic
Sensing Geometry	Shear	Shear
Housing Material	Titanium	Titanium
Sealing	Hermetic	Hermetic
Size (Height x Length x Width)	0.45 in x 0.82 in x 0.45 in	11.4 mm x 20.8 mm x 11.4 mm [2]
Weight(without cable)	0.23 oz	6.6 gm
Electrical Connector	1/4-28 4-Pin	1/4-28 4-Pin
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.

HT - High temperature, extends normal operation temperatures

Sensitivity(± 20 %)	50 mV/g	5.1 mV/(m/s ²)
Frequency Range(± 5 %)	4 to 4000 Hz	4 to 4000 Hz
(± 10 %)	3 to 5000 Hz	3 to 5000 Hz
Temperature Range(Operating)	-65 to +325 °F	-54 to +163 °C
Discharge Time Constant	0.1 to 0.6 sec	0.1 to 0.6 sec

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
TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4

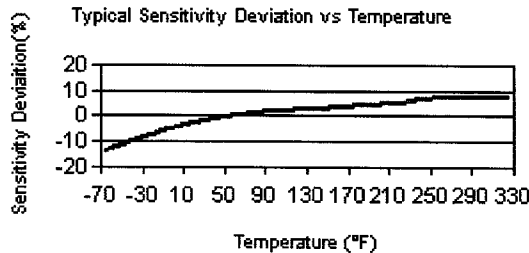
Excitation Voltage	24 to 30 VDC	24 to 30 VDC
Output Bias Voltage	7.5 to 17 VDC	7.5 to 17 VDC

NOTES:

- [1] Full range requires adequate excitation voltage.
- [2] Typical.
- [3] Zero-based, least-squares, straight line method.
- [4] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 080A109 Petro Wax (1)
 Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)



Entered: <i>Jet</i>	Engineer: <i>MM</i>	Sales: <i>WDC</i>	Approved: <i>EB</i>	Spec Number:
Date: <i>8-6-09</i>	Date: <i>8-3-09</i>	Date: <i>8-4-09</i>	Date: <i>8-5-09</i>	21589

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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