

Model Number
356M155

TRIAXIAL ICP® ACCELEROMETER

Revision: D
ECN #: 27654

PERFORMANCE

	ENGLISH	SI	
Sensitivity (±10%)	2.5 mV/g	0.26 mV/(m/s ²)	
Measurement Range	±2000 g pk	±19620 m/s ² pk	
Frequency Range (±5%) (Y & Z - axis)	1.0 to 10000 Hz	1.0 to 10000 Hz	
Frequency Range (±5%) (X axis)	1.0 to 6000 Hz	1.0 to 6000 Hz	
Resonant Frequency	≥70 kHz	≥70 kHz	
Broadband Resolution (1 to 10000 Hz)	0.008 g rms	0.08m/s ² rms	[1]
Non-Linearity	≤1 %	≤1 %	[2]
Transverse Sensitivity	≤5 %	≤5 %	

ENVIRONMENTAL

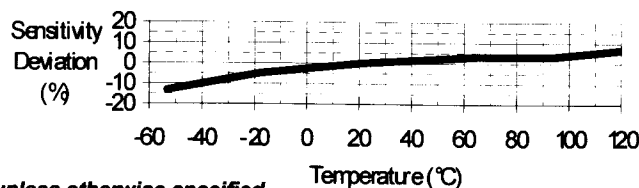
Overload Limit (Shock)	±5000 g pk	±49050 m/s ² pk	
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]

ELECTRICAL

Excitation Voltage	21 to 30 VDC	21 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤100 ohms	≤100 ohms	
Output Bias Voltage	7 to 14 VDC	7 to 14 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)	4000 µg/√Hz	36720 (µm/s ²) /√Hz	[1]
Spectral Noise (10 Hz)	800 µg/√Hz	7848 (µm/s ²) /√Hz	[1]
Spectral Noise (100 Hz)	200 µg/√Hz	1964 (µm/s ²) /√Hz	[1]
Spectral Noise (1 kHz)	100 µg/√Hz	980 (µm/s 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)	0.45 in x 0.82 in x 0.45 in	11.4 mm x 20.8 mm x 11.4mm	
Weight (without cable)	0.16 oz	4.5 gm	[1]
Electrical Connector	¼-28 4-Pin	¼-28 4-Pin	
Electrical Connection Position	Side	Side	
Mounting	Adhesive	Adhesive	



All specifications are at room temperature unless otherwise specified.

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.

- 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
- Output Bias Voltage 7.5 to 15 VDC 7.5 to 15 VDC

NOTES:

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

SUPPLIED ACCESSORIES:

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

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In the interest of constant product improvement, we reserve the right to change specifications without notice.

Drawn: <i>[Signature]</i>	Engineer: <i>JB</i>	Sales: <i>WDC</i>	Approved: <i>BAM</i>	Spec Number:
Date: <i>11-8-07</i>	Date: <i>11-8-07</i>	Date: <i>11-8-07</i>	Date: <i>11-8-07</i>	27142

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