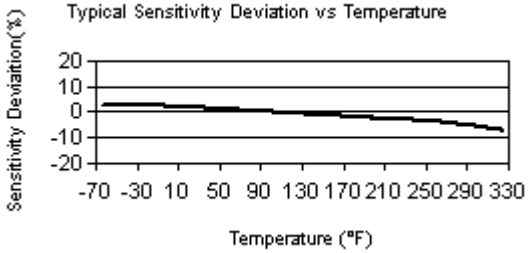
Model Number	TRIAXIAL ICP® ACCELEROMETER	Revision: NR
TLD339A34		ECN #: 41213

Performance	**ENGLISH**	**SI**	
Sensitivity(± 10 %)	50 mV/g	5.1 mV/(m/s²)	
Measurement Range	± 100 g pk	± 980 m/s² pk	
Frequency Range(± 5 %)	2 to 5000 Hz	2 to 5000 Hz	
Frequency Range(± 10 %)	1 to 8000 Hz	1 to 8000 Hz	
Resonant Frequency	≥ 35 kHz	≥ 35 kHz	
Broadband Resolution(1 to 10,000 Hz)	.005 g rms	.049 m/s² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
TEDS Compliant(Per IEEE 1451.4)	Yes	Yes	
Environmental			
Overload Limit(Shock)	± 5000 g pk	± 49,000 m/s² pk	
Temperature Range(Operating)	-65 to 325 °F	-54 to 163 °C	
Temperature Response	See Graph	See Graph	[1]
Temperature Coefficient of Sensitivity	-.03 %/°F	-.06 %/°C	[1]
Base Strain Sensitivity	.001 g/με	.0098 (m/s²)/με	[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	≤ 200 Ohm	≤ 200 Ohm	
Output Bias Voltage	10 to 15 VDC	10 to 15 VDC	
Discharge Time Constant	.2 to .8 sec	.2 to .8 sec	
Settling Time(within 10% of bias)	<5 sec	<5 sec	
Spectral Noise(1 Hz)	2000 µg/√Hz	19,600 (µm/sec^2)/√Hz	[1]
Spectral Noise(10 Hz)	400 µg/√Hz	3920 (µm/sec^2)/√Hz	[1]
Spectral Noise(100 Hz)	100 µg/√Hz	980 (µm/sec^2)/√Hz	[1]
Spectral Noise(1 kHz)	50 µg/√Hz	490 (µm/sec^2)/√Hz	[1]
Spectral Noise(10 kHz)	30 µg/√Hz	294 (µm/sec^2)/√Hz	[1]
Physical			
Sensing Element	Quartz	Quartz	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.55 in x 0.80 in x 0.55 in	14.0 mm x 20.3 mm x 14.0 mm	
Weight	0.37 oz	10.5 gm	[1]
Electrical Connector	1/4-28 4-Pin	1/4-28 4-Pin	
Electrical Connection Position	Side	Side	
Mounting Thread	5-40 Female	5-40 Female	
Mounting Torque	10 to 20 in-lb	113 to 225 N-cm	

CE[3]



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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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

NOTES:

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

SUPPLIED ACCESSORIES:

Model 080A109 Petro Wax (1)
Model 080A145 Adhesive Mounting Base (1)
Model 080A90 Quick Bonding Gel (1)
Model 081A27 Mounting Stud (5-40 to 5-40) (1)
Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)
Model M081A27 Metric mounting stud, 5-40 to M3 x 0.50 long (1)

Entered: AP	Engineer: RM	Sales: KWW	Approved: BAM	Spec Number:
Date: 6/13/2013	Date: 6/13/2013	Date: 6/13/2013	Date: 6/13/2013	**55683**

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