

Model Number  
**TLD339A36**

# TRIAxIAL ICP® ACCELEROMETER

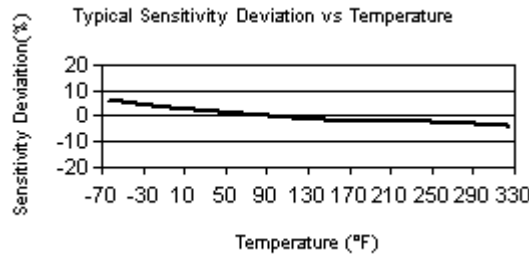
Revision: A  
ECN #: 44311

	ENGLISH	SI	
<b>Performance</b>			
Sensitivity(± 10 %)	10 mV/g	1.0 mV/(m/s <sup>2</sup> )	
Measurement Range	± 500 g pk	± 4900 m/s <sup>2</sup> 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	
Filter Type(single pole)	Low Pass	Low Pass	
Electrical Filter Roll-off	6 dB/octave	6 dB/octave	
Electrical Filter Corner Frequency	>13 kHz	>13 kHz	
Broadband Resolution(1 to 10,000 Hz)	.003 g rms	.029 μm/sec <sup>2</sup> rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
TEDS Compliant(Per IEEE 1451.4)	Yes	Yes	

	ENGLISH	SI	
<b>Environmental</b>			
Overload Limit(Shock)	± 5000 g pk	± 49,000 m/s <sup>2</sup> 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/s <sup>2</sup> )/με	[1]

	ENGLISH	SI	
<b>Electrical</b>			
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	8 to 14 VDC	8 to 14 VDC	
Discharge Time Constant	.3 to 1.1 sec	.3 to 1.1 sec	
Settling Time(within 10% of bias)	<5 sec	<5 sec	
Spectral Noise(1 Hz)	2080 μg/√Hz	20,405 (μm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(10 Hz)	250 μg/√Hz	2453 (μm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	50 μg/√Hz	491 (μm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	20 μg/√Hz	196 (μm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(10 kHz)	19 μg/√Hz	186 (μm/sec <sup>2</sup> )/√Hz	[1]

	ENGLISH	SI	
<b>Physical</b>			
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	



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: JM	Engineer: DK	Sales: RM	Approved: BAM	Spec Number:
Date: 6/26/2015	Date: 6/26/2015	Date: 6/26/2015	Date: 6/26/2015	<b>60891</b>



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