

Model Number TLD339A34	TRIAxIAL ICP® ACCELEROMETER			Revision: A ECN #: 43903
Performance	ENGLISH	SI	OPTIONAL VERSIONS	
Sensitivity(± 10 %)	50 mV/g	5.1 mV/(m/s²)	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
Measurement Range	± 100 g pk	± 980 m/s² pk	T - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4	
Frequency Range(± 5 %)	2 to 5000 Hz	2 to 5000 Hz	TLA - TEDS LMS International - Free Format	
Frequency Range(± 10 %)	1 to 8000 Hz	1 to 8000 Hz	TLB - TEDS LMS International - Automotive Format	
Resonant Frequency	≥ 35 kHz	≥ 35 kHz	TLC - TEDS LMS International - Aeronautical Format	
Broadband Resolution(1 to 10,000 Hz)	.005 g rms	.049 m/s² rms	NOTES: [1]Typical. [2]Zero-based, least-squares, straight line method. [3]See PCB Declaration of Conformance PS023 for details.	
Non-Linearity	≤ 1 %	≤ 1 %		
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		
Temperature Coefficient of Sensitivity	-.03 %/°F	-.06 %/°C		
Base Strain Sensitivity	.001 g/µε	.0098 (m/s²)/µε		
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	8 to 14 VDC	8 to 14 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/sec²)/√Hz		
Spectral Noise(10 Hz)	400 µg/√Hz	3920 (µm/sec²)/√Hz		
Spectral Noise(100 Hz)	100 µg/√Hz	980 (µm/sec²)/√Hz		
Spectral Noise(1 kHz)	50 µg/√Hz	490 (µm/sec²)/√Hz		
Spectral Noise(10 kHz)	30 µg/√Hz	294 (µm/sec²)/√Hz		
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		
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	<	