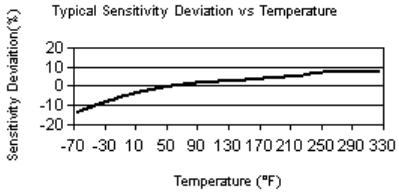
Model Number **356A15**	**ACCELEROMETER, ICP®, TRIAXIAL**	Revision R ECN #: 27623

Performance	**ENGLISH**	**SI**	
Sensitivity (±10 %)	100 mV/g	10.2 mV/(m/s²)	
Measurement Range	±50 g pk	±490 m/s² pk	
Frequency Range (±5 %)	2 to 5000 Hz	2 to 5000 Hz	
Frequency Range (±10 %)	1.4 to 6500 Hz	1.4 to 6500 Hz	
Resonant Frequency	≥25 kHz	≥25 kHz	
Broadband Resolution (1 to 10000 Hz)	0.0002 g rms	0.002 m/s² rms	[1]
Non-Linearity	≤1 %	≤1 %	[4]
Transverse Sensitivity	≤5 %	≤5 %	
Environmental			
Overload Limit (Shock)	±7000 g pk	±68600 m/s² pk	
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C	[3]
Base Strain Sensitivity	0.001 g/με	0.01 (m/s²)/με	[1]
Electrical			
Excitation Voltage	20 to 30 VDC	20 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 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.2 to 0.8 sec	0.2 to 0.8 sec	
Settling Time (within 10% of bias)	<5 sec	<5 sec	
Spectral Noise (1 Hz)	80 µg/√Hz	785 (µm/sec²/√Hz	[1]
Spectral Noise (10 Hz)	15 µg/√Hz	147 (µm/sec²/√Hz	[1]
Spectral Noise (100 Hz)	5 µg/√Hz	49 (µm/sec²/√Hz	[1]
Spectral Noise (1 kHz)	2 µg/√Hz	20 (µm/sec²/√Hz	[1]
Spectral Noise (10 kHz)	1 µg/√Hz	9.8 (µm/sec²/√Hz	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.55 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	10-32 Female	10-32 Female	
Mounting Torque	10 to 20 in-lb	113 to 225 N-cm	

CE[5]



Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

A - Adhesive Mount
Supplied Accessory: Model 080A109 Petro Wax
Supplied Accessory: Model 080A90 Quick bond Gel (for use with accelerometer adhesive mtg bases to fill gaps on rough surfaces)

HT - High temperature, extends normal operation temperatures

Frequency Range (±5 %)	10 to 5000 Hz	10 to 5000 Hz	
Frequency Range (±10 %)	7 to 6500 Hz	7 to 6500 Hz	
Broadband Resolution (1 to 10000 Hz)	0.0005 g rms	0.005 µm/sec² rms	
Temperature Range (Operating)	-65 to +325 °F	-54 to +163 °C	
Excitation Voltage	24 to 30 VDC	24 to 30 VDC	
Output Bias Voltage	7 to 16 VDC	7 to 16 VDC	[2]
Discharge Time Constant	0.03 to 0.1 sec	0.03 to 0.1 sec	
Spectral Noise (1 Hz)	110 µg/√Hz	1080 (µm/sec²/√Hz	
Spectral Noise (10 Hz)	50 µg/√Hz	491 (µm/sec²/√Hz	
Spectral Noise (100 Hz)	30 µg/√Hz	294 (µm/sec²/√Hz	
Spectral Noise (1 kHz)	10 µg/√Hz	98.1 (µm/sec²/√Hz	

J - Ground Isolated

Electrical Isolation (Base)	>10^8 Ohm	>10^8 Ohm	
Size (Height x Length x Width)	0.59 in x 0.80 in x 0.55 in	15.0 mm x 20.3 mm x 14.0 mm	
Weight	0.37 oz	10.5 gm	
Mounting	Adhesive	Adhesive	

Supplied Accessory: Model 080A109 Petro Wax
Supplied Accessory: Model 080A90 Quick bond Gel (for use with accelerometer adhesive mtg bases to fill gaps on rough surfaces)

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	8.7 to 13.0 VDC	8.7 to 13.0 VDC

Notes

[1] Typical.
[2] TEDS option adds 1.0 VDC to bias voltage.
[3] 250° F to 325° F data valid with HT option only.
[4] Zero-based, least-squares, straight line method.
[5] See PCB Declaration of Conformance PS023 for details.

Supplied Accessories

080A109 Petro Wax (1)
080A12 Adhesive Mounting Base (1)
080A90 Quick Bonding Gel (1)
081B05 Mounting Stud (10-32 to 10-32) (1)
ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)
M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

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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