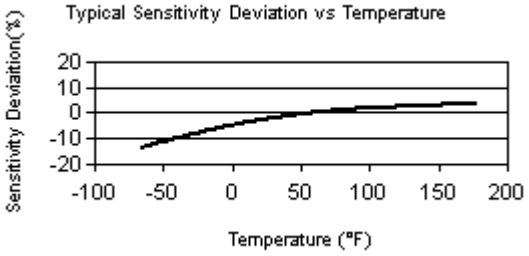
Model Number	TRIAXIAL ICP® ACCELEROMETER	Revision: K
356A16		ECN #: 28126

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 %)(y or z axis)	0.5 to 5000 Hz	0.5 to 5000 Hz	
Frequency Range(± 5 %)(x axis)	0.5 to 4500 Hz	0.5 to 4500 Hz	
Frequency Range(± 10)	0.3 to 6000 Hz	0.3 to 6000 Hz	
Resonant Frequency	≥ 25 kHz	≥ 25 kHz	
Phase Response(± 5 °)	1.0 to 5000 Hz	1.0 to 5000 Hz	
Broadband Resolution(1 to 10,000 Hz)	0.0001 g rms	0.001 m/s² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	± 7000 g pk	± 68,600 m/s² pk	
Temperature Range(Operating)	-65 to +176 °F	-54 to +80 °C	
Temperature Response	See Graph	See Graph	[1]
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	1.0 to 3.0 sec	1.0 to 3.0 sec	
Settling Time(within 10% of bias)	<10 sec	<10 sec	
Spectral Noise(1 Hz)	40 μg/√Hz	392 (μm/sec²)/√Hz	[1]
Spectral Noise(10 Hz)	10 μg/√Hz	98 (μm/sec²)/√Hz	[1]
Spectral Noise(100 Hz)	3 μg/√Hz	29.4 (μm/sec²)/√Hz	[1]
Spectral Noise(1 kHz)	1 μg/√Hz	9.8 (μm/sec²)/√Hz	[1]
Spectral Noise(10 kHz)	0.5 μg/√Hz	4.9 (μm/sec²)/√Hz	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Anodized Aluminum	Anodized Aluminum	
Sealing	Epoxy	Epoxy	
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	0.26 oz	7.4 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[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.

A - Adhesive Mount
Supplied Accessory : Model 080A109 Petro Wax (1)
Supplied Accessory : Model 080A90 Quick Bonding Gel (1)

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

Temperature Range(Operating)	-65 to +176 °F	-54 to +80 °C
Output Bias Voltage	8.5 to 13.0 VDC	8.5 to 13.0 VDC

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

Entered:	Engineer: SDS	Sales:	Approved: BAM	Spec Number:
Date:	Date: 2/11/2008	Date:	Date: 2/11/2008	**10330**

PCB PIEZOTRONICS
3425 Walden Avenue, Depew, NY 14043
Phone: 716-684-0001
Fax: 716-684-0987
E-Mail: info@pcb.com

Represented in India by
Structural Solutions Pvt Ltd. | Phone: 040 2322 2380 | Email: sales@stsols.com
#4th Floor, Sudheer Tapani Towers,Himayath Nagar, Hyderabad - 500 029