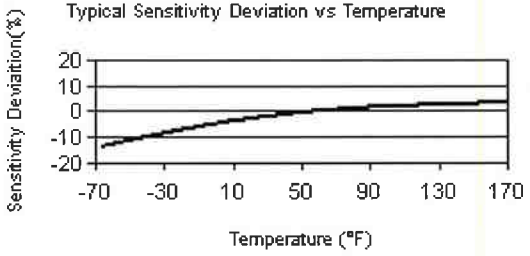
Model Number	TRIAXIAL ICP® ACCELEROMETER	Revision: N
356A12		ECN #: 33025

Performance	ENGLISH	SI	
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s²)	
Measurement Range	± 50 g pk	± 491 m/s² pk	
Frequency Range(± 5 %)	0.5 to 5000 Hz	0.5 to 5000 Hz	
(± 10 %)	0.4 to 6000 Hz	0.4 to 6000 Hz	
Resonant Frequency	≥ 25 kHz	≥ 25 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.0002 g rms	0.002 m/s² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s² pk	
Temperature Range(Operating)	-65 to +170 °F	-54 to +77 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	0.001 g/με	0.01 (m/s²)/με	[1]
Electrical			
Excitation Voltage	18 to 30 VDC	18 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 to 3 sec	1 to 3 sec	
Settling Time(within 10% of bias)	<10 sec	<10 sec	
Spectral Noise(1 Hz)	50 μg/√Hz	490 (μm/sec²)/√Hz	[1]
(10 Hz)	20 μg/√Hz	196 (μm/sec²)/√Hz	[1]
(100 Hz)	5 μg/√Hz	49 (μm/sec²)/√Hz	[1]
(1 kHz)	2 μg/√Hz	19.8 (μm/sec²)/√Hz	[1]
(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)	0.45 in x 0.45 in x 0.45 in	11.4 mm x 11.4 mm x 11.4 mm	
Weight(without cable)	0.19 oz	5.4 gm	[1]
Electrical Connector	Integral Cable	Integral Cable	
Electrical Connection Position	Side	Side	
Cable Termination	1/4-28 4-Pin Jack	1/4-28 4-Pin Jack	
Cable Length	5 ft	1.5 m	
Cable Type	034 4-cond Shielded	034 4-cond Shielded	
Mounting Thread	5-40 Female	5-40 Female	

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 034G05 4-cond. shielded cable, 5 ft (1.5M), 4-pin plug to (3) BNC plugs (1)
Supplied Accessory : Model 080A109 Petro Wax (1)
Supplied Accessory : Model 080A90 Quick Bonding Gel (1)

J - Ground Isolated

Electrical Isolation(Base)	≥ 10^8 ohm	≥ 10^8 ohm	
Size - Height x Length x Width	0.49 in x 0.45 in x 0.49 in	12.5 mm x 11.4 mm x 12.5 mm	
Weight(without cable)	0.23 oz	6.5 gm	[1]
Mounting	Adhesive	Adhesive	

Supplied Accessory : Model 034G05 4-cond. shielded cable, 5 ft (1.5M), 4-pin plug to (3) BNC plugs (1)
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
TLB - TEDS LMS International - Automotive Format

Frequency Range(± 5 %)	0.5 to 4000 Hz	0.5 to 4000 Hz	
(± 10 %)	0.4 to 5000 Hz	0.4 to 5000 Hz	
Output Bias Voltage	8.5 to 13 VDC	8.5 to 13 VDC	
Weight(without cable)	0.23 oz	6.4 gm	[1]
Mounting	Adhesive	Adhesive	

Supplied Accessory : Model 034G05 4-cond. shielded cable, 5 ft (1.5M), 4-pin plug to (3) BNC plugs (1)
Supplied Accessory : Model 080A109 Petro Wax (1)
Supplied Accessory : Model 080A90 Quick Bonding Gel (1)

W - Water Resistant Cable

Electrical Connector	Sealed Integral Cable	Sealed Integral Cable

NOTES:

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

SUPPLIED ACCESSORIES:

Model 034G05 4-cond. shielded cable, 5 ft (1.5M), 4-pin plug to (3) BNC plugs (1)
Model 080A Adhesive Mounting Base (1)
Model 080A109 Petro Wax (1)
Model 081A27 Mounting Stud (5-40 to 5-40) (1)
Model 081A90 Mounting stud, 10-32 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: LH	Engineer: BAM	Sales: WDC	Approved: EB	Spec Number:
Date: 6-1-10	Date: 5-26-10	Date: 5-26-10	Date: 5-27-10	9281

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