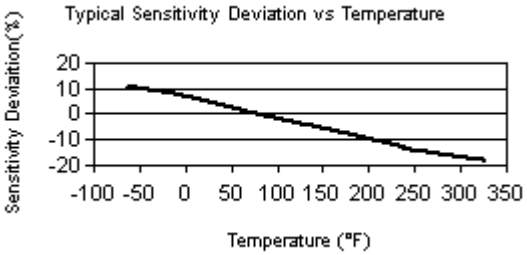
Model Number	TRIAXIAL ICP® ACCELEROMETER	Revision: E
356A13		ECN #: 42197

Performance	ENGLISH	SI	
Sensitivity(± 20 %)	5 mV/g	0.51 mV/(m/s²)	
Measurement Range	± 1000 g pk	± 9810 m/s² pk	
Frequency Range(± 5 %)(y or z axis)	2 to 8000 Hz	2 to 8000 Hz	
Frequency Range(± 5 %)(x axis)	2 to 5000 Hz	2 to 5000 Hz	
Frequency Range(+1 dB)(x axis)	≥ 8000 Hz	≥ 8000 Hz	
Resonant Frequency	≥ 50 kHz	≥ 50 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.003 g rms	0.03 m/s² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s² pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	[2]
Temperature Response	See Graph	See Graph	
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	7 to 12 VDC	7 to 12 VDC	
Discharge Time Constant	0.24 to 1.0 sec	0.24 to 1.0 sec	
Settling Time(within 10% of bias)	<3 sec	<3 sec	
Spectral Noise(1 Hz)	1200 µg/√Hz	11,772 (µm/sec^2)/√Hz	[1]
Spectral Noise(10 Hz)	300 µg/√Hz	2943 (µm/sec^2)/√Hz	[1]
Spectral Noise(100 Hz)	100 µg/√Hz	981 (µm/sec^2)/√Hz	[1]
Spectral Noise(1 kHz)	30 µg/√Hz	294 (µm/sec^2)/√Hz	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.25 in x 0.375 in x 0.25 in	6.35 mm x 9.53 mm x 6.35 mm	
Weight(without cable)	0.04 oz	1.0 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	[4]
Cable Type	099 Twisted 4-cond	099 Twisted 4-cond	
Mounting	Adhesive	Adhesive	

CE [5]



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.

HT - High temperature, extends normal operation temperatures

Temperature Range(Operating)	-65 to +325 °F	-54 to +163 °C

NOTES:

[1] Typical.
[2] 250° F to 325° F data valid with HT option only.
[3] Zero-based, least-squares, straight line method.
[4] To ensure EMI and cross talk does not affect the noise specification, the integral cable is limited to 5 feet.
[5] 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 080A109 Petro Wax (1)
Model 080A90 Quick Bonding Gel (1)
Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)

Entered: AP	Engineer: JJB	Sales: WDC	Approved: JJB	Spec Number:
Date: 11/8/2013	Date: 11/8/2013	Date: 11/8/2013	Date: 11/8/2013	**27705**

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