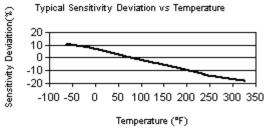
Model	Number
250	D 24

TRIAXIAL ICP® ACCELEROMETER

Revision: H

ECN #: 42197

000521			
Performance	ENGLISH	<u>SI</u>	
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s²)	
Measurement Range	± 500 g pk	± 4905 m/s ² pk	
Frequency Range(± 5 %)(y or z axis)	2 to 10,000 Hz	2 to 10,000 Hz	
Frequency Range(± 5 %)(x axis)	2 to 7000 Hz	to 7000 Hz 2 to 7000 Hz	
Resonant Frequency	≥ 55 kHz	≥ 55 kHz ≥ 55 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.004 g rms	0.04 m/s ² 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	[1][2]
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	0.3 to 1.0 sec	0.3 to 1.0 sec	
Settling Time(within 10% of bias)	<3 sec	<3 sec	
Spectral Noise(1 Hz)	1000 μg/√Hz	9810 (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)	50 µg/√Hz	490 (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)	0.4 in x 0.4 in x 0.4 in	10.2 mm x 10.2 mm x 10.2 mm	
Weight	0.14 oz	4 gm	[1]
Electrical Connector	8-36 4-Pin	8-36 4-Pin	
Electrical Connection Position	Side	Side	
Mounting Thread	5-40 Female	5-40 Female	
	Typical Ser	nsitivity Deviation vs Temperature	



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)

HT - High temperature, extends normal operation temperatures

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

J - Ground Isolated

Frequency Range(+5 %) 7000 Hz 7000 Hz Electrical Isolation(Base) >10⁸ Ohm >10⁸ Ohm

Size - Height x Length x Width 0.44 in x 0.40 in x 0.44 in 11.2 mm x 10.2 mm x 11.2 mm

Weight 0.16 oz 4.5 gm Mounting Adhesive Adhesive

Supplied Accessory: Model 034K10 Cable 10FT Mini 4 Pin To (3) BNC (1)

Supplied Accessory: Model 080A109 Petro Wax (1) Supplied Accessory: Model 080A90 Quick Bonding Gel (1)

NOTES:

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

SUPPLIED ACCESSORIES:

Model 034K10 Cable 10FT Mini 4 Pin To (3) BNC (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: 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	15127



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