Model Number 356B21

TRIAXIAL ICP® ACCELEROMETER

Revision: H

ECN #: 42197

Performance	<u>ENGLISH</u>	<u>SI</u>	
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s²)	
Measurement Range	± 500 g pk	± 4905 m/s² 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	2 to 7000 Hz	
Resonant Frequency	≥ 55 kHz	≥ 55 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.004 g rms	0.04 m/s² rms	[1]
Non-Linearity	≤ 1 %	≤1% ≤1%	
Transverse Sensitivity	≤ 5 %	% ≤ 5 %	
Environmental			
Overload Limit(Shock)	\pm 10,000 g pk \pm 98,100 m/s ² pk		
Temperature Range(Operating)	-65 to +250 °F -54 to +121 °C		[2
Temperature Response	See Graph	See Graph	[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	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/sec²)/√Hz		[1
Spectral Noise(1 kHz)	50 µg/√Hz 490 (µm/sec²)/√Hz		[1
Physical	00 µg/ 11.12	400 (μπ/300)/ 1112	٠
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		
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	
	igi 20 —	nsitivity Deviation vs Temperature	
	% 10 -	-	
	> 10		

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)

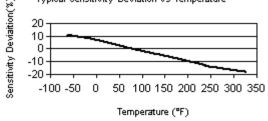
Model M081A27 Metric mounting stud, 5-40 to M3 x 0.50 long (1)

Entered: AP	Engineer: JJB	Sales: WDC	Approved: JJB	Spec Number:
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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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