

Model Number
356A67

TRIAxIAL ICP® ACCELEROMETER

Revision: A
ECN #: 29834

	ENGLISH	SI	
Performance			
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s ²)	
Measurement Range	± 500 g pk	± 4900 m/s ² pk	
Frequency Range(-5 %)(y or z axis)	0.5 to 2500 Hz	0.5 to 2500 Hz	[2]
Frequency Range(-5 %)(x axis)	0.5 to 3000 Hz	0.5 to 3000 Hz	[2]
Resonant Frequency	≥ 25 kHz	≥ 25 kHz	
Filter Type	single pole	single pole	
Electrical Filter Roll-off	6 dB/octave	6 dB/octave	
Electrical Filter Cutoff Frequency	10 kHz	10 kHz	[3]
Broadband Resolution(1 to 10,000 Hz)	0.0005 g rms	0.005 m/s ² rms	[1]
Non-Linearity(400 g, 3920 m/s ²)	≤ 1 %	≤ 1 %	[3]
Non-Linearity(500 g, 4900 m/s ²)	≤ 2 %	≤ 2 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	± 7000 g pk	± 68,600 m/s ² pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	0.001 g/µε	0.01 (m/s ²)/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 2.0 sec	1.0 to 2.0 sec	
Settling Time(within 10% of bias)	<5 sec	<5 sec	
Spectral Noise(1 Hz)	150 µg/√Hz	1472 (µm/sec ²)/√Hz	[1]
Spectral Noise(10 Hz)	25 µg/√Hz	245 (µm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	10 µg/√Hz	98 (µm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	5 µg/√Hz	49 (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)	0.55 in x 0.80 in x 0.55 in	14.0 mm x 20.3 mm x 14.0 mm	
Weight	0.37 oz	10.5 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	

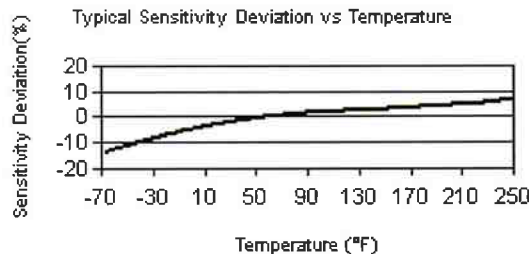
OPTIONAL VERSIONS
Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

- [1] Typical.
- [2] Upper frequency response is ± 500 Hz from the specified value.
- [3] Zero-based, least-squares, straight line method.
- [4] 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: <i>JJA</i>	Engineer: <i>BAM</i>	Sales: <i>RJL</i>	Approved: <i>EB</i>	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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