

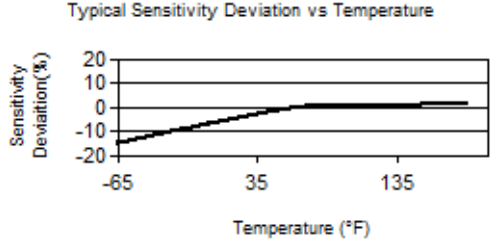
Model Number 356A45	TRIAxIAL ICP® ACCELEROMETER				Revision: E ECN #: 49997
Performance	ENGLISH		SI		OPTIONAL VERSIONS Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used. J - Ground Isolated Electrical Isolation(Base) ≥ 10⁸ Ohm ≥ 10⁸ Ohm Size - Height 0.47 in 11.8 mm Size - Length 0.78 in 19.8 mm Size - Width 0.47 in 11.8 mm Weight 0.20 oz 5.7 gm
	Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s ²)		
Measurement Range	± 50 g pk	± 490 m/s ² pk			
Frequency Range(+/- 5 %)	0.7 to 7,000 Hz	0.7 to 7,000 Hz			
Frequency Range(+/- 10 %)	0.4 to 10,000 Hz	0.4 to 10,000 Hz			
Resonant Frequency	≥ 30 kHz	≥ 30 kHz			
Broadband Resolution(1 to 10,000 Hz)	0.0005 g rms	0.005 m/s ² rms	[1]		
Non-Linearity	≤ 1 %	≤ 1 %	[2]		
Transverse Sensitivity	≤ 6 %	≤ 6 %			
TEDS Compliant(Per IEEE 1451.4)	Yes	Yes			
Environmental	ENGLISH		SI		
Overload Limit(Shock)	± 5,000 g pk	± 49,050 m/s ² pk			
Temperature Range(Operating)	-65 to 185 °F	-54 to 85 °C			
Temperature Response	See Graph	See Graph	[1]		
Base Strain Sensitivity	.001 g/με	.01 (m/s ²)/με	[1]		
Electrical	ENGLISH		SI		
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	0.8 to 2.4 sec	0.8 to 2.4 sec			
Settling Time(within 10% of bias)	≤ 5 sec	≤ 5 sec			
Spectral Noise(1 Hz)	125 μg/√Hz	1,226 (μm/sec ²)/√Hz	[1]		
Spectral Noise(10 Hz)	40 μg/√Hz	392 (μm/sec ²)/√Hz	[1]		
Spectral Noise(100 Hz)	15 μg/√Hz	147 (μm/sec ²)/√Hz	[1]		
Spectral Noise(1 kHz)	4 μg/√Hz	39.2 (μm/sec ²)/√Hz	[1]		
Physical	ENGLISH		SI		
Sensing Element	Ceramic	Ceramic			
Sensing Geometry	Shear	Shear			
Housing Material	Titanium	Titanium			
Sealing	Hermetic	Hermetic			
Size (Height x Length x Width)	0.40 in x 0.75 in x 0.40 in	10.2 mm x 19.1 mm x 10.2 mm			
Weight	0.15 oz	4.2 gm	[1]		
Electrical Connector	1/4-28 4-Pin	1/4-28 4-Pin			
Electrical Connection Position	Side	Side			
Mounting	Adhesive	Adhesive			

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

SUPPLIED ACCESSORIES:
 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: LK	Engineer: YHK	Sales: JC	Approved: NJF	Spec Number:
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All specifications are at room temperature unless otherwise specified.
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