

	ENGLISH	SI	
Performance			
Sensitivity(± 10 %)	50 mV/g	5.1 mV/(m/s ²)	
Measurement Range	± 100 g pk	± 981 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)	0.0006 g rms	.006 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 6 %	≤ 6 %	
TEDS Compliant(Per IEEE 1451.4)	Yes	Yes	
Environmental			
Overload Limit(Shock)	± 5,000 g pk	± 49,050 m/s ² pk	
Temperature Range(Operating)	-65 to 200 °F	-54 to 93 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	.001 g/µε	.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	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)	200 µg/√Hz	1,962 (µm/sec ²)/√Hz	[1]
Spectral Noise(10 Hz)	45 µg/√Hz	441 (µm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	20 µg/√Hz	196 (µm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	6 µg/√Hz	58.9 (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)	0.40 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	

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		
Frequency Range(+/- 5) %	12 to 7,000 Hz	12 to 7,000 Hz
Frequency Range(+/- 10) %	9 to 10,000 Hz	9 to 10,000 Hz
Broadband Resolution1 to 10,000 Hz	0.001 g rms	0.001 g rms
Temperature Range(Operating)	-65 to 325 °F	-65 to 325 °F
Output Bias Voltage	12 to 16 VDC	12 to 16 VDC
Discharge Time Constant	0.04 to 0.2 sec	0.04 to 0.2 sec
Spectral Noise(10 Hz) Hz	200 µg/√Hz	1,962 (µm/s ²)/√Hz
Spectral Noise(100 Hz) Hz	30 µg/√Hz	294 (µm/s ²)/√Hz
Spectral Noise(1 kHz) Hz	10 µg/√Hz	98 (µm/s ²)/√Hz
J - Ground Isolated Electrical Isolation(Base)		
Electrical Isolation(Base)	≥ 10 ⁸ Ohm	≥ 10 ⁸ 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

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:
Date: 01/23/2020	Date: 01/23/2020	Date: 01/23/2020	Date: 01/23/2020	62802

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