

	ENGLISH	SI	
<b>Performance</b>			
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s <sup>2</sup> )	
Measurement Range	± 50 g pk	± 490 m/s <sup>2</sup> pk	
Frequency Range(+/-5 %)	0.7 to 7000 Hz	0.7 to 7000 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 <sup>2</sup> rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 6 %	≤ 6 %	
TEDS Compliant(Per IEEE 1451.4)	Yes	Yes	
<b>Environmental</b>			
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s <sup>2</sup> 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 <sup>2</sup> )/µε	[1]
<b>Electrical</b>			
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	1226 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(10 Hz)	40 µg/√Hz	392 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	15 µg/√Hz	147 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	4 µg/√Hz	39.2 (µm/sec <sup>2</sup> )/√Hz	[1]
<b>Physical</b>			
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 0.40 in x 0.40 in	10.2 mm x 10.2 mm x 10.2 mm	[1]
Weight	0.15 oz	4.2 gm	
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.

<b>J - Ground Isolated</b>		
Electrical Isolation(Base)	10 <sup>9</sup> Ohm	10 <sup>9</sup> Ohm
Size - Height x Length x Width	.43 in x .47 in x .47 in	x x

**NOTES:**

[1] Typical.

[2] Zero-based, least-squares, straight line method.

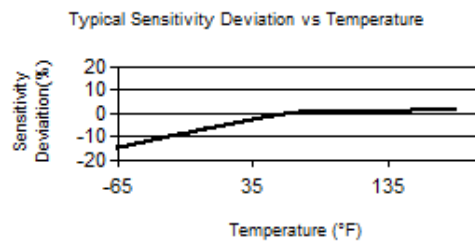
[3] See PCB Declaration of Conformance PS023 for details.

**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)



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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Entered: LK	Engineer: RB	Sales: ML	Approved: BAM	Spec Number:
Date: 6/23/2017	Date: 6/23/2017	Date: 6/23/2017	Date: 6/23/2017	<b>49501</b>