

	ENGLISH	SI	
<b>Performance</b>			
Sensitivity(± 10 %)	500 mV/g	51 mV/(m/s <sup>2</sup> )	
Measurement Range	± 10 g pk	± 98 m/s <sup>2</sup> pk	
Frequency Range(± 5 %)	0.5 to 3000 Hz	0.5 to 3000 Hz	
Frequency Range(± 10 %)	0.4 to 4000 Hz	0.4 to 4000 Hz	
Resonant Frequency	≥ 14 kHz	≥ 14 kHz	
Phase Response(± 5 °)	2 to 4000 Hz	2 to 4000 Hz	
Broadband Resolution(1 to 10,000 Hz)	0.00006 g rms	0.0006 m/s <sup>2</sup> rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
<b>Environmental</b>			
Overload Limit(Shock)	± 5000 g pk	± 49,000 m/s <sup>2</sup> pk	
Temperature Range(Operating)	-65 to +176 °F	-54 to +80 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	0.001 g/µε	0.01 (m/s <sup>2</sup> )/µε	[1]
<b>Electrical</b>			
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 300 ohm	≤ 300 ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.8 to 2.0 sec	0.8 to 2.0 sec	
Settling Time(within 10% of bias)	<10 sec	<10 sec	
Spectral Noise(1 Hz)	18 µg/√Hz	180 (µm/s <sup>2</sup> )/√Hz	[1]
Spectral Noise(10 Hz)	6 µg/√Hz	60 (µm/s <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	2 µg/√Hz	20 (µm/s <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	0.7 µg/√Hz	7 (µm/s <sup>2</sup> )/√Hz	[1]
Spectral Noise(10 kHz)	0.2 µg/√Hz	2 (µm/s <sup>2</sup> )/√Hz	[1]
<b>Physical</b>			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Anodized Aluminum	Anodized Aluminum	
Sealing	Epoxy	Epoxy	
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	0.33 oz	9.3 gm	[1]
Electrical Connector	1/4-28 4-Pin	1/4-28 4-Pin	
Electrical Connection Position	Side	Side	
Mounting Thread	5-40 Female	5-40 Female	

**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.

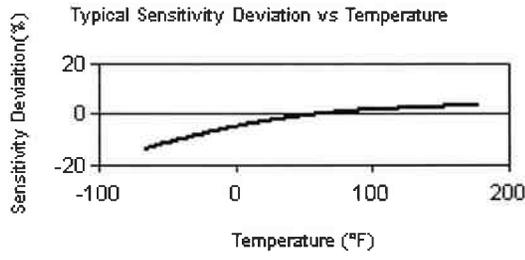
**A - Adhesive Mount**  
 Supplied Accessory : Model 080A109 Petro Wax (1)  
 Supplied Accessory : Model 080A90 Quick Bonding Gel (1)

**J - Ground Isolated**  
 Electrical Isolation(Base) >10<sup>8</sup> ohm >10<sup>8</sup> ohm  
 Size - Height x Length x Width 0.60 in x 0.80 in x 0.63 in 15.2 mm x 20.3 mm x 16.0 mm  
 Weight 0.37 oz 10.5 gm  
 Mounting Adhesive Adhesive  
 Supplied Accessory : Model 080A109 Petro Wax (1)  
 Supplied Accessory : Model 080A90 Quick Bonding Gel (1)

**T - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4**  
**TLA - TEDS LMS International - Free Format**  
**TLB - TEDS LMS International - Automotive Format**  
**TLC - TEDS LMS International - Aeronautical Format**  
**TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4**  
 Output Bias Voltage 8.5 to 13 VDC 8.5 to 13 VDC

**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 080A145 Adhesive Mounting Base (1)  
 Model 081A27 Mounting Stud (5-40 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)



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: JH	Engineer: MGN	Sales: RYZ	Approved: SM	Spec Number:
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