

	ENGLISH	SI	
<b>Performance</b>			
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s <sup>2</sup> )	
Measurement Range	± 500 g pk	± 4905 m/s <sup>2</sup> pk	
Frequency Range(± 5 %)(y or z axis)	2 to 10,000 Hz	2 to 10,000 Hz	
Frequency Range(± 5 %)(x axis)	2 to 7000 Hz	2 to 7000 Hz	
Resonant Frequency	≥ 55 kHz	≥ 55 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.004 g rms	0.04 m/s <sup>2</sup> rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
<b>Environmental</b>			
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s <sup>2</sup> pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	[2]
Temperature Response	See Graph	See Graph	[1][2]
<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	≤ 200 Ohm	≤ 200 Ohm	
Output Bias Voltage	7 to 12 VDC	7 to 12 VDC	
Discharge Time Constant	0.3 to 1.0 sec	0.3 to 1.0 sec	
Settling Time(within 10% of bias)	<3 sec	<3 sec	
Spectral Noise(1 Hz)	1000 µg/√Hz	9810 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(10 Hz)	300 µg/√Hz	2943 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	100 µg/√Hz	981 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	50 µg/√Hz	490 (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)	0.4 in x 0.77 in x 0.4 in	10.2 mm x 19.6 mm x 10.2 mm	
Weight	0.19 oz	5.3 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	
Mounting Torque	4 to 5 in-lb	45 to 56 N-cm	

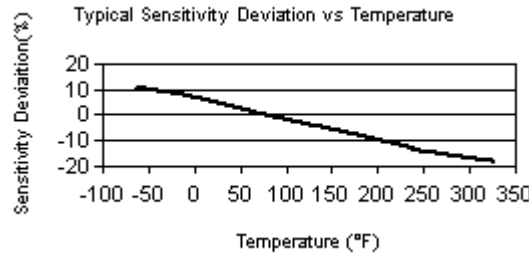
**OPTIONAL VERSIONS**

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

**HT** - High temperature, extends normal operation temperatures  
 Supplied Accessory : Model 080A Adhesive Mounting Base  
 Supplied Accessory : Model 081A27 Mounting Stud (5-40 to 5-40) (1)  
 Supplied Accessory : Model 081A90 Mounting stud, 10-32 to 5-40  
 Supplied Accessory : Model M081A27 Metric mounting stud, 5-40 to M3 x 0.50 long (1)

**NOTES:**  
 [1] Typical.  
 [2] 250° F to 325° F data valid with HT option only.  
 [3] Zero-based, least-squares, straight line method.  
 [4] See PCB Declaration of Conformance PS023 for details.

**SUPPLIED ACCESSORIES:**  
 Model 080A Adhesive Mounting Base  
 Model 080A109 Petro Wax (1)  
 Model 081A27 Mounting Stud (5-40 to 5-40) (1)  
 Model 081A90 Mounting stud, 10-32 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: AP	Engineer: JJB	Sales: WDC	Approved: JJB	Spec Number:
Date: 11/8/2013	Date: 11/8/2013	Date: 11/8/2013	Date: 11/8/2013	<b>20697</b>