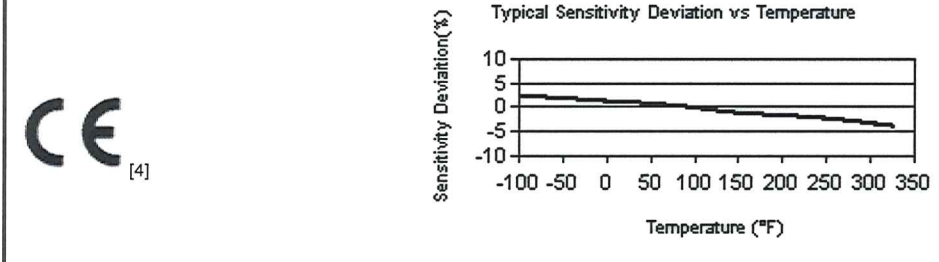


Performance	ENGLISH	SI	
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s <sup>2</sup> )	
Measurement Range	± 500 g pk	± 4900 m/s <sup>2</sup> pk	
Frequency Range(± 5 %)	1 to 6000 Hz	1 to 6000 Hz	
Frequency Range(± 10 %)	0.7 to 9000 Hz	0.7 to 9000 Hz	
Frequency Range(± 3 dB)	0.35 to 15,000 Hz	0.35 to 15,000 Hz	
Resonant Frequency	≥ 35 kHz	≥ 35 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.003 g rms	0.03 m/s <sup>2</sup> rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[3]
<b>Environmental</b>			
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s <sup>2</sup> pk	
Temperature Range(Operating)	-100 to +325 °F	-73 to +163 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	≤ 0.0005 g/µε	≤ 0.005 (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	≤ 100 ohm	≤ 100 ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.5 to 2.6 sec	0.5 to 2.6 sec	
Settling Time(within 10% of bias)	<7 sec	<7 sec	
Spectral Noise(1 Hz)	2800 µg/√Hz	27,468 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(10 Hz)	700 µg/√Hz	6867 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	180 µg/√Hz	1766 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	64 µg/√Hz	628 (µm/sec <sup>2</sup> )/√Hz	[1]
<b>Physical</b>			
Sensing Element	Quartz	Quartz	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Size (Hex x Height)	0.50 in x 0.81 in	12.7 mm x 20.6 mm	
Weight	0.38 oz	10.5 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Side	Side	
Mounting Thread	10-32 Female	10-32 Female	
Mounting Torque	10 to 20 in-lb	113 to 225 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.		
<b>J - Ground Isolated</b>		
Frequency Range(5 %)	4 kHz	4 kHz
Frequency Range(10 %)	7 kHz	7 kHz
Frequency Range(3 dB)	10 kHz	10 kHz
Resonant Frequency	≥ 22 kHz	≥ 22 kHz
Electrical Isolation(Base)	>10 <sup>8</sup> ohm	>10 <sup>8</sup> ohm
Size - Hex x Height	0.50 in x 0.86 in	12.7 mm x 21.9 mm
<b>W - Water Resistant Cable</b>		
Electrical Connector	Sealed Integral Cable	Sealed Integral Cable
Electrical Connection Position	Side	Side

**NOTES:**  
 [1] Typical.  
 [2] Zero-based, least-squares, straight line method.  
 [3] Transverse sensitivity is typically ≤ 3%.  
 [4] See PCB Declaration of Conformance PS023 for details.



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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**SUPPLIED ACCESSORIES:**  
 Model 080A109 Petro Wax (1)  
 Model 081B05 Mounting Stud (10-32 to 10-32) (1)  
 Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)  
 Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

Entered: <u>YOMW</u>	Engineer: <u>BAM</u>	Sales: <u>WDC</u>	Approved: <u>EB</u>	Spec Number:
Date: <u>3/24/11</u>	Date: <u>3/24/11</u>	Date: <u>3/24/11</u>	Date: <u>3/24/11</u>	9976



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