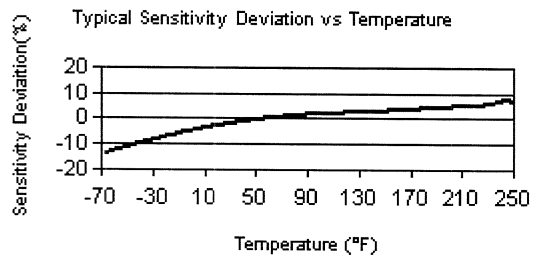


	ENGLISH	SI	
<b>Performance</b>			
Sensitivity (± 10 %)	2.5 mV/g	0.255 mV/(m/s <sup>2</sup> )	
Measurement Range	± 2000 g pk	± 19,620 m/s <sup>2</sup> pk	
Frequency Range (± 5 %)	1.0 to 7000 Hz	1.0 to 7000 Hz	
Frequency Range (± 1 dB)	0.5 to 8000 Hz	0.5 to 8000 Hz	
Resonant Frequency	≥ 20 kHz	≥ 20 kHz	
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 %	
<b>Environmental</b>			
Overload Limit (Shock)	± 5000 g pk	± 49,050 m/s <sup>2</sup> pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	
Base Strain Sensitivity	0.002 g/με	0.02 (m/s <sup>2</sup> )/με	[1]
<b>Electrical</b>			
Excitation Voltage	22 to 30 VDC	22 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 15 VDC	8 to 15 VDC	
Discharge Time Constant	0.5 to 2.0 sec	0.5 to 2.0 sec	
Settling Time (within 10% of bias)	<15 sec	<15 sec	
Spectral Noise (1 Hz)	1200 μg/√Hz	11,800 (μm/s <sup>2</sup> )/√Hz	[1]
Spectral Noise (10 Hz)	120 μg/√Hz	1180 (μm/s <sup>2</sup> )/√Hz	[1]
Spectral Noise (100 Hz)	60 μg/√Hz	590 (μm/s <sup>2</sup> )/√Hz	[1]
Spectral Noise (1 kHz)	30 μg/√Hz	300 (μm/s <sup>2</sup> )/√Hz	[1]
Electrical Isolation (Base)	≥ 10 <sup>8</sup> ohm	≥ 10 <sup>8</sup> ohm	
<b>Physical</b>			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Anodized Aluminum	Anodized Aluminum	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.46 in x 0.80 in x 0.80 in	11.7 mm x 20.3 mm x 20.3 mm	
Weight	0.50 oz	14.3 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Mounting	Through Hole	Through Hole	

**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.

**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 081A98 4-40 socket head cap screw x 0.675 " long (for Series 3801) (2)  
Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)  
Model M081A98 Mounting Screw (2)



Entered: <i>BLS</i>	Engineer: <i>MLA</i>	Sales: <i>MLA</i>	Approved: <i>MLA</i>	Spec Number:
Date: <i>4/25/06</i>	Date: <i>4/26/06</i>	Date: <i>4/26/06</i>	Date: <i>4/26/06</i>	28314

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.

ICP® is a registered trademark of PCB Group, Inc.

**PCB PIEZOTRONICS™**  
VIBRATION DIVISION  
3425 Walden Avenue, Depew, NY 14043

Phone: 716-684-0001  
Fax: 716-685-3886  
E-Mail: vibration@pcb.com