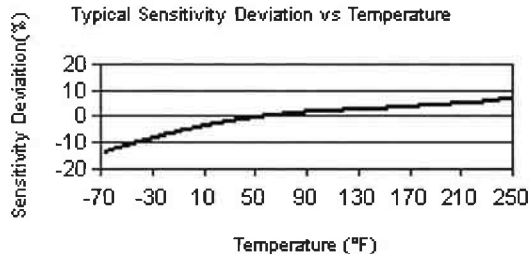


Performance	ENGLISH	SI	
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s ²)	
Measurement Range	± 50 g pk	± 491 m/s ² pk	
Frequency Range(± 5 %)	0.5 to 10,000 Hz	0.5 to 10,000 Hz	
Frequency Range(± 10 %)	0.3 to 12,000 Hz	0.3 to 12,000 Hz	
Frequency Range(± 3 dB)	0.2 to 20,000 Hz	0.2 to 20,000 Hz	
Resonant Frequency	≥ 35 kHz	≥ 35 kHz	
Phase Response(± 5 °)(at 70°F [21°C])	2 to 6000 Hz	2 to 6000 Hz	
Broadband Resolution(1 to 10,000 Hz)	0.00016 g rms	0.0015 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[4]
Environmental			
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s ² pk	
Temperature Range(Operating)	-65 to +200 °F	-53 to +93 °C	[2]
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	≤ 0.005 g/με	≤ 0.05 (m/s ²)/με	[1]
Electrical			
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 2.4 sec	0.8 to 2.4 sec	
Settling Time(within 10% of bias)	<10 sec	<10 sec	
Spectral Noise(1 Hz)	60 μg/√Hz	588 (μm/sec ²)/√Hz	[1]
Spectral Noise(10 Hz)	16 μg/√Hz	157 (μm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	5 μg/√Hz	49 (μm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	1.5 μg/√Hz	14.7 (μm/sec ²)/√Hz	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Size (Hex x Height)	9/32 in x 0.73 in	9/32 in x 18.5 mm	
Weight	0.070 oz	2.0 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Top	Top	
Mounting Thread	5-40 Male	5-40 Male	
Mounting Torque	8 to 12 in-lb	90 to 135 N-cm	



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.

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 080A90 Quick Bonding Gel (1) replaces Model 080A15

HT - High temperature, extends normal operation temperatures

Frequency Range(5 %)	5 to 10,000 Hz	5 to 10,000
Frequency Range(10 %)	3 to 12,000 Hz	3 to 12,000
Frequency Range(3 dB)	2 to 20,000 Hz	2 to 20,000
Broadband Resolution(1 to 10,000 Hz)	0.0002 g rms	0.002 m/s ² rms
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C
Discharge Time Constant	0.08 to 0.24 sec	0.08 to 0.24 sec
Spectral Noise(1 Hz)	75 μg/√Hz	736 (μm/sec ²)/√Hz
Spectral Noise(10 Hz)	25 μg/√Hz	245 (μm/sec ²)/√Hz

J - Ground Isolated

Frequency Range(5 %)	0.5 to 8000 Hz	0.5 to 8000 Hz
Frequency Range(10 %)	0.3 to 10,000 Hz	0.3 to 10,000 Hz
Frequency Range(3 dB)	0.2 to 16,000 Hz	0.2 to 16,000 Hz
Resonant Frequency	≥ 30 kHz	≥ 30 kHz
Electrical Isolation(Base)	≥ 10 ⁸ ohm	≥ 10 ⁸ ohm
Size - Hex x Height	3/8 in x 0.75 in	3/8 in x 19.1 mm
Weight	0.1 oz	2.8 gm

M - Metric Mount

Mounting Thread M3 x 0.50 Male M3 x 0.50 Male
Supplied Accessory : Model M080A15 Adhesive Mounting Base (1) replaces Model 080A15

W - Water Resistant Cable

Electrical Connector Sealed Integral Cable Sealed Integral Cable
Electrical Connection Position Side Side

NOTES:

- [1] Typical.
- [2] 200°F to 250°F data valid with HT option only.
- [3] Zero-based, least-squares, straight line method.
- [4] Transverse sensitivity is typically ≤ 3%.
- [5] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 080A109 Petro Wax (1)
Model 080A15 Adhesive Mounting Base (1)
Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point).

Entered: ECB	Engineer: BAM	Sales: WDC	Approved: JWB	Spec Number:
Date: 12/10/09	Date: 12/10/09	Date: 12/10/09	Date: 12/10/09	8337



3425 Walden Avenue, Depew, NY 14043

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



Represented in India by

Structural Solutions Pvt Ltd. | Phone: 040 2322 2380 | Email: sales@stsols.com

#4th Floor, Sudheer Tapani Towers, Himayath Nagar, Hyderabad - 500 029