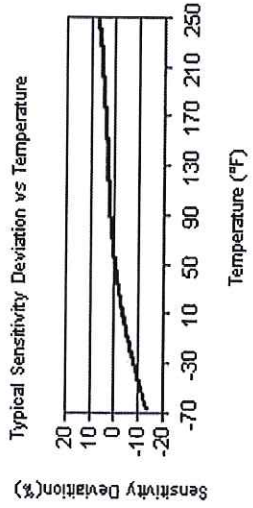


ICP® ACCELEROMETER

Performance
 Sensitivity(± 10 %)
 Measurement Range
 Frequency Range(± 5 %)
 Frequency Range(± 10 %)
 Resonant Frequency
 Broadband Resolution(1 to 10,000 Hz)
 Non-Linearity
 Transverse Sensitivity
Environmental
 Overload Limit
 Temperature Range
 Temperature Response
 Base Strain Sensitivity
Electrical
 Excitation Voltage
 Constant Current Excitation
 Output Impedance
 Output Bias Voltage
 Discharge Time Constant
 Spectral Noise(1 Hz)
 Spectral Noise(10 Hz)
 Spectral Noise(100 Hz)
 Spectral Noise(1 kHz)
Physical
 Sensing Element
 Sensing Geometry
 Housing Material
 Sealing
 Size (Hex x Height)
 Weight
 Electrical Connector
 Electrical Connection Position
 Mounting Thread
 Mounting Torque

ENGLISH	SI
10 mV/g	1.02 mV/(m/s ²)
± 500 g pk	± 4905 m/s ² pk
1 to 12,000 Hz	1 to 12,000 Hz
0.7 to 18,000 Hz	0.7 to 18,000 Hz
0.35 to 25,000 Hz	0.35 to 25,000 Hz
≥ 50 kHz	≥ 50 kHz
0.0005 g rms	0.005 m/s ² rms
≤ 1 %	≤ 1 %
≤ 5 %	≤ 5 %
± 10,000 g pk	± 98,100 m/s ² pk
-65 to +250 °F	-54 to +121 °C
See Graph	See Graph
<0.006 g/μe	<0.06 (m/s ²)/μe
18 to 30 VDC	18 to 30 VDC
2 to 20 mA	2 to 20 mA
≤ 100 ohm	≤ 100 ohm
8 to 12 VDC	8 to 12 VDC
0.4 to 1.2 sec	0.4 to 1.2 sec
220 μg/√Hz	2158 (μm/sec ²)/√Hz
50 μg/√Hz	490 (μm/sec ²)/√Hz
10 μg/√Hz	98 (μm/sec ²)/√Hz
5 μg/√Hz	49 (μm/sec ²)/√Hz
Ceramic	Ceramic
Shear	Shear
Titanium	Titanium
Hermetic	Hermetic
9/32 in x 0.73 in	9/32 in x 18.5 mm
0.07 oz	2.0 gm
10-32 Coaxial Plug	10-32 Coaxial Plug
Top	Top
5-40 Male	5-40 Male
8 to 12 in-lb	90 to 135 N-cm

[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.



Typical Sensitivity Deviation vs Temperature
 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	1 to 10,000 Hz 0.7 to 15,000 Hz 0.35 to 20,000 Hz ≥ 40 kHz ≥ 10 ⁸ ohm 3/8 in x 19.1 mm 2.8 gm
J - Ground Isolated Frequency Range(± 5 %) Frequency Range(± 10 %) Resonant Frequency Electrical Isolation(Base) Size - Hex x Height Weight	1 to 10,000 Hz 0.7 to 15,000 Hz 0.35 to 20,000 Hz ≥ 40 kHz ≥ 10 ⁸ ohm 3/8 in x 0.75 in 0.1 oz
M - Metric Mount Mounting Thread Supplied Accessory: Model M080A15 Adhesive Mounting Base (1) replaces Model 080A15	M3 x 0.50 Male M3 x 0.50 Male
W - Water Resistant Cable Electrical Connector Electrical Connection Position	Sealed Integral Cable Sealed Integral Cable Top

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.

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). (1)

Entered: <u>ECB</u>	Engineer: <u>BAN</u>	Sales: <u>MDL</u>	Approved: <u>JB</u>	Spec Number:
Date: <u>12/04</u>	Date: <u>12/04</u>	Date: <u>12/04</u>	Date: <u>12/04</u>	12571

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