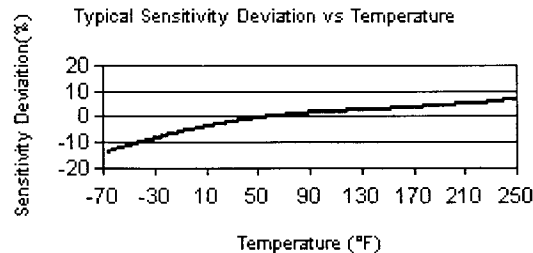


Model Number
352C65

ICP® ACCELEROMETER

Revision: L
ECN #: 16511

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 10000 Hz	0.5 to 10000 Hz	
Frequency Range (±10 %)	0.3 to 12000 Hz	0.3 to 12000 Hz	
Frequency Range (±3 dB)	0.2 to 20000 Hz	0.2 to 20000 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 10000 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	±49050 m/s ² pk	
Temperature Range (Operating)	-65 to +200 °F	-54 to +93 °C	[2]
Temperature Response	See Graph	See Graph	
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 ohms	≤300 ohms	
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/s ²)/√Hz	[1]
Spectral Noise (10 Hz)	16 µg/√Hz	157 (µm/s ²)/√Hz	[1]
Spectral Noise (100 Hz)	5 µg/√Hz	49 (µm/s ²)/√Hz	[1]
Spectral Noise (1 kHz)	1.5 µg/√Hz	14.7 (µm/s 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)	0.31 in x 0.42 in	7.9 mm x 10.7 mm	
Weight	0.070 oz	2.0 gm	[1]
Electrical Connector	5-44 Coaxial	5-44 Coaxial	
Electrical Connection Position	Side	Side	
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.

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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 [6]
Supplied Accessory : Model 080A90 Quick Bonding Gel (1) replaces Model 080A15

HT - High temperature, extends normal operation temperatures

Frequency Range (5 %)	5 Hz	5 Hz
Frequency Range (10 %)	3 Hz	3 Hz
Frequency Range (3 dB)	2 Hz	2 Hz
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
Broadband Resolution (1 to 10000 Hz)	0.0002 g rms	0.002 m/s ² rms
Spectral Noise (1 Hz)	75 µg/√Hz	736 (µm/s ²)/√Hz
Spectral Noise (10 Hz)	25 µg/√Hz	245 (µm/s ²)/√Hz
Spectral Noise (100 Hz)	5 µg/√Hz	49 (µm/s ²)/√Hz
Spectral Noise (1 kHz)	1.5 µg/√Hz	14.7 (µm/s ²)/√Hz

J - Ground Isolated

Frequency Range (5 %)	8 kHz	8 kHz
Frequency Range (10 %)	10 kHz	10 kHz
Frequency Range (3 dB)	16 kHz	16 kHz
Resonant Frequency	≥30 kHz	≥30 kHz
Electrical Isolation (Base)	>10 ⁸ ohms	>10 ⁸ ohms
Size (Hex x Height)	0.37 in x 0.55 in	9.5 mm x 14.0 mm
Weight	0.1 oz	2.8 gm

M - Metric Mount

Mounting Thread	M3 x 0.50 Male	M3 x 0.50 Male
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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.
- [6] Mounting stud removed, adhesive mounting base not required.

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: <i>DS</i>	Engineer: <i>DS</i>	Sales: <i>WDL</i>	Approved: <i>PM</i>	Spec Number:
Date: <i>11/22/02</i>	Date: <i>11/22/02</i>	Date: <i>11/22/02</i>	Date: <i>11/22/02</i>	8339

PCB PIEZOTRONICS
VIBRATION DIVISION
3425 Warden Avenue, Denver, NY 14043

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