Model Number 333B52		ICP® ACCELE	R
Performance	ENGLISH	<u>SI</u>	
Sensitivity(± 10 %)	1000 mV/g	102 mV/(m/s²)	
Measurement Range	± 5 g pk	± 49 m/s² pk	
Frequency Range(± 5 %)	0.5 to 3000 Hz	0.5 to 3000 Hz	
Resonant Frequency	≥ 20 kHz	≥ 20 kHz	
Phase Response(± 5 °)(at 70°F [21°C])	2.5 to 3000 Hz	2.5 to 3000 Hz	
Broadband Resolution(1 to 10,000 Hz)	0.00005 g rms	0.0005 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[3]
Environmental	. 1000	. 00 000 /-2 -1	
Overload Limit	± 4000 g pk	± 39,000 m/s² pk	
Temperature Range	0 to +150 °F	-18 to +66 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity Electrical	0.01 g/με	0.1 (m/s²)/με	[1]
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 500 Ohm	≤ 500 Ohm	
Output Impedance Output Bias Voltage	7 to 12 VDC	7 to 12 VDC	
Discharge Time Constant	0.7 to 2.0 sec	0.7 to 2.0 sec	
Settling Time(within 10% of bias)	<10 sec	<10 sec	
Spectral Noise(10 Hz)	3.8 µg/√Hz	37 (µm/sec²)/√Hz	[1]
Spectral Noise(100 Hz)	1.1 μg/√Hz	37 (μπ/sec²)/√Hz	[1]
Spectral Noise(1 kHz)	0.4 μg/√Hz	3.9 (μm/sec²)/√Hz	[1]
Spectral Noise(1 Hz)	0.4 μg/√Hz	0.0 (p000), 11.12	
Physical	13 μg/ 1112	150 (μπ/sec)/\H2	[1]
Size (Height x Length x Width)	0.45 in x 0.68 in x 0.45 in	11.4 mm x 17.3 mm x 11.4 mm	
Weight	0.26 oz	7.5 gm [1	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Side	Side	
Mounting	Adhesive	Adhesive	
	Typical Sensitiv	rity Deviation vs Temperature	

Sensitivity Devi -20 50 100 150 200 0 Temperature (°F)

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.

OMETER

Revision: E ECN #: 45641

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.

T - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4

TLA - TEDS LMS International - Free Format

TLB - TEDS LMS International - Automotive Format

TLC - TEDS LMS International - Aeronautical Format

TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4 Output Bias Voltage 7.5 to 13 VDC 7.5 to 13 VDC

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 080A90 Quick Bonding Gel (1)

Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)

Entered: LK	Engineer: BAM	Sales: WDC	Approved: BAM	Spec Number:
Date: 7/7/2016	Date: 7/7/2016	Date: 7/7/2016	Date: 7/7/2016	11869



Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com