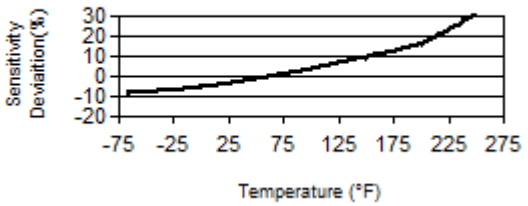
Model Number	ICP® SHOCK ACCELEROMETER	Revision: H
350B21		ECN #: 46759

Performance	**ENGLISH**	**SI**	
Sensitivity(± 30 %)	0.05 mV/g	0.005 mV/(m/s²)	
Measurement Range	± 100,000 g pk	± 980,000 m/s² pk	
Frequency Range(± 1 dB)	1 to 10,000 Hz	1 to 10,000 Hz	
Frequency Range(± 3 dB)	0.5 to 35,000 Hz	0.5 to 35,000 Hz	
Resonant Frequency	≥ 200 kHz	≥ 200 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.3 g rms	2.9 m/s² rms	[1]
Non-Linearity(per 10,000 g (98,100 m/s²))	± 0.5 %	± 0.5 %	[2]
Transverse Sensitivity	≤ 7 %	≤ 7 %	
Environmental			
Overload Limit(Shock)	± 200,000 g pk	± 1,960,000 m/s² pk	
Temperature Range(Operating)	-65 to +200 °F	-54 to +93 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	0.2 g/με	2.0 (m/s²)/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	≤ 100 Ohm	≤ 100 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.5 to 0.7 sec	0.5 to 0.7 sec	[1]
Settling Time(within 10% of bias)	<5 sec	<5 sec	
Electrical Isolation(Case)	$>10^8$ Ohm	$>10^8$ Ohm	
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Hex x Height)	0.375 in x 0.73 in	9.5 mm x 18.5 mm	
Weight(without cable)	0.15 oz	4.4 gm	[1]
Electrical Connector	Integral Cable	Integral Cable	
Cable Length	10 ft	3.05 m	
Cable Type	031 Twisted Pair	031 Twisted Pair	
Mounting Thread	1/4-28 Male	1/4-28 Male	

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.

HT - High temperature, extends normal operation temperatures

Temperature Range(Operating)	-65 to +250 °F	-54 to 121 °C

M - Metric Mount

Mounting Thread	M6 x 0.75 Male	M6 x 0.75 Male

NOTES:

[1] Typical.
[2] Value depicts maximum sensitivity change.

SUPPLIED ACCESSORIES:

Model ACS-14 High G shock accelerometer calibration using Hopkinson bar. (1)
Model ACS-22 NIST Traceable frequency response (100Hz to ±1 dB point) (1)

Entered: LK	Engineer: AJA	Sales: RWM	Approved: JJB	Spec Number:
Date: 5/5/2017	Date: 5/5/2017	Date: 5/5/2017	Date: 5/5/2017	**10141**

PCB PIEZOTRONICS
3425 Walden Avenue, Depew, NY 14043
Phone: 716-684-0001
Fax: 716-684-0987
E-Mail: info@pcb.com