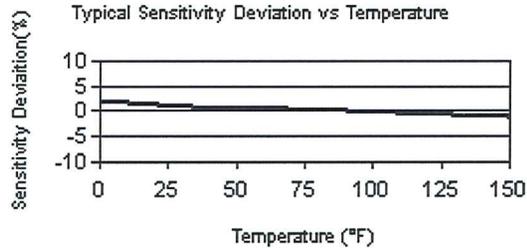


Model Number
350B24

ICP® SHOCK ACCELEROMETER

Revision: B
ECN #: 38113

	ENGLISH	SI	
Performance			
Sensitivity(± 30 %)	1.0 mV/g	0.1 mV/(m/s ²)	
Measurement Range	± 5000 g pk	± 49,000 m/s ² pk	
Frequency Range(± 1 dB)	0.4 to 10,000 Hz	0.4 to 10,000 Hz	
(-3 dB)	0.2 to 25,000 Hz	0.2 to 25,000 Hz	[2]
Electrical Filter Corner Frequency(-3 dB)	13 kHz	13 kHz	[1][3]
Mechanical Filter Resonant Frequency	23 kHz	23 kHz	[1][4]
Resonant Frequency	≥ 100 kHz	≥ 100 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.02 g rms	0.20 m/s ² rms	[1]
Non-Linearity	≤ 2.0 %	≤ 2.0 %	
Transverse Sensitivity	≤ 7 %	≤ 7 %	
Environmental			
Overload Limit(Shock)	± 50,000 g pk	± 490,000 m/s ² pk	
Temperature Range(Operating)	0 to +150 °F	-18 to +66 °C	
(Storage)	-40 to +200 °F	-40 to +93 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	0.002 g/με	0.02 (m/s ²)/με	[1]
Electrical			
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 200 ohm	≤ 200 ohm	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	
Discharge Time Constant	1.0 to 2.0 sec	1.0 to 2.0 sec	[1]
Settling Time(within 10% of bias)	<10 sec	<10 sec	
Electrical Isolation(Case)	>1,000,000 ohm	>1,000,000 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 0.75 in	9.5 mm x 19.1 mm	
Weight(without cable)	0.16 oz	4.5 gm	[1]
Electrical Connector	10-32 Coaxial Plug	10-32 Coaxial Plug	
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	



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.

M - Metric Mount
Mounting Thread: M6 x 0.75 Male, M6 x 0.75 Male

NOTES:
[1] Typical.
[2] Typical corner frequency for coupled electrical and mechanical filters.
[3] Electrical filter is a second order filter.
[4] Amplitude at resonance is +9 dB.

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: JH	Engineer: JJB	Sales: RWM	Approved: BTM	Spec Number:
Date: 1-19-12	Date: 1-12-12	Date: 1-12-12	Date: 1-12-12	30724

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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PCB PIEZOTRONICS™
VIBRATION DIVISION
3425 Walden Avenue, Depew, NY 14043

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