

Model Number
350A13

ICP® SHOCK ACCELEROMETER

Revision: K
ECN #: 38113

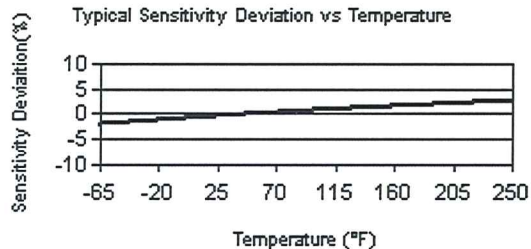
	ENGLISH	SI	
Performance			
Sensitivity(± 15 %)	0.5 mV/g	0.051 mV/(m/s ²)	
Measurement Range	± 10,000 g pk	± 98,000 m/s ² pk	
Frequency Range(± 10 %)	0.4 to 7500 Hz	0.4 to 7500 Hz	
Electrical Filter Cutoff Frequency(-10 %)	≥ 7.5 kHz	≥ 7.5 kHz	[2]
Resonant Frequency	≥ 50 kHz	≥ 50 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.06 g rms	0.59 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	± 30,000 g pk	± 294,000 m/s ² pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	
(Storage)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[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	0.4 to 1.4 sec	0.4 to 1.4 sec	
Settling Time(within 10% of bias)	≤ 5 sec	≤ 5 sec	
Physical			
Sensing Element	Quartz	Quartz	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Hermetic	Hermetic	
Size (Hex x Height)	0.5 in x 1.45 in	12.7 mm x 36.8 mm	
Weight	0.63 oz	17.9 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Top	Top	
Mounting Thread	1/4-28 Male	1/4-28 Male	
Mounting Torque	25 to 40 in-lb	280 to 450 N-cm	

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] Electrical filter is a first order low pass filter
[3] See PCB Declaration of Conformance PS023 for details.

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)



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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Entered: <i>SL</i>	Engineer: <i>JOB</i>	Sales: <i>RWM</i>	Approved: <i>BAM</i>	Spec Number:
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