Model	Number			
350414				

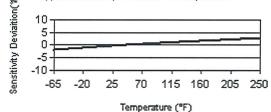
ICP® SHOCK ACCELEROMETER

Revision: K

ECN #: 38113

000/111			
Performance	ENGLISH	SI	
Sensitivity(± 15 %)	1.0 mV/g	0.102 mV/(m/s²)	
Measurement Range	± 5000 g pk	± 49,000 m/s² 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)	0.02 g rms	0.20 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	
Transverse Sensitivity	≤ 5 %	≤ 5 %	[3]
Environmental			
Overload Limit(Shock)	± 30,000 g pk	± 294,000 m/s² 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	≥ 1.8 sec	≥ 1.8 sec	
Settling Time(within 10% of bias)	≤ 11 sec	≤ 11 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	200000
Weight	0.63 oz	17.9 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Тор	Тор	
Mounting Thread	1/4-28 Male	1/4-28 Male	
Mounting Torque	25 to 40 in-lb	280 to 450 N-cm	
	Typical Sensitivity De	viation 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.

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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.

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] Transverse sensitivity is typically ≤ 3%.
 [4] 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)

Entered: Set	Engineer:	Sales: Rum	Approved:BAM	Spec Number:
Date: /-/9-/2	Date: 1-17-19	Date: 1-12-12-	Date: /-/2-/2	4140



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