

Model Number
339A32

TRIAxIAL ICP® ACCELEROMETER

Revision A
ECN #: 34722

Performance

	ENGLISH	SI	
Sensitivity (±10 %)	10 mV/g	1.02 mV/(m/s ²)	
Measurement Range	±500 g pk	±4905 m/s ² pk	
Frequency Range (±5 %)	2 to 8000 Hz	2 to 8000 Hz	
Frequency Range	to 000	to 000	
Resonant Frequency	≥45 kHz	≥45 kHz	
Broadband Resolution (1 to 10000 Hz)	.003 g rms	.029 m/s ² rms	[1]
Non-Linearity	≤0.5 %	≤0.5 %	
Transverse Sensitivity	≤5 %	≤5 %	

Environmental

Overload Limit (Shock)	±5000 g pk	±49050 m/s ² pk	
Temperature Range (Operating)	-65 to +325 °F	-54 to +163 °C	
Temperature Response	See Graph	See Graph	[1]
Temperature Coefficient of Sensitivity	≤0.011 %/°F	≤0.020 %/°C	

Electrical

Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤200 ohm	≤200 ohm	
Output Bias Voltage (Room Temperature)	7 to 11 VDC	7 to 11 VDC	
Discharge Time Constant	0.5 to 2.0 sec	0.5 to 2.0 sec	
Settling Time (within 10% of bias)	<1.5 sec	<1.5 sec	
Spectral Noise (1 Hz)	1187 µg/√Hz	11644 (µm/sec ² /√Hz)	[1]
Spectral Noise (10 Hz)	178 µg/√Hz	1746 (µm/sec ² /√Hz)	[1]
Spectral Noise (100 Hz)	48 µg/√Hz	471 (µm/sec ² /√Hz)	[1]
Spectral Noise (1 kHz)	25 µg/√Hz	245 (µm/sec ² /√Hz)	[1]

Physical

Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.28 in x 0.47 in x 0.47 in	7.0 mm x 12.0 mm x 12.0 mm	
Weight	0.13 oz	3.6 gm	[1]
Electrical Connector	8-36 4-Pin	8-36 4-Pin	
Electrical Connection Position	Side	Side	
Mounting	Adhesive	Adhesive	

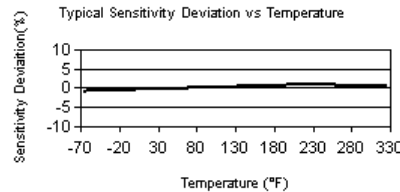
Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

Notes

- [1] Typical.
- [2] See PCB Declaration of Conformance PS023 for details.

Supplied Accessories

- 034K10 Cable 10FT Mini 4 Pin To (3) BNC (1)
- 080A109 Petro Wax (1)
- 080A90 Quick Bonding Gel (1)
- ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (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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