

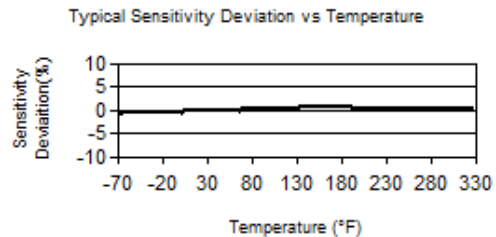
Model Number <b>339A30</b>	<b>TRIAxIAL ICP® ACCELEROMETER</b>	Revision: E ECN #: 46623
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	<b>ENGLISH</b>	<b>SI</b>	
<b>Performance</b>			
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s <sup>2</sup> )	
Measurement Range	± 500 g pk	± 4905 m/s <sup>2</sup> pk	
Frequency Range(± 5 %)	2 to 8000 Hz	2 to 8000 Hz	
Resonant Frequency(x or y axis)	≥ 25 kHz	≥ 25 kHz	
Resonant Frequency(z axis)	≥ 55 kHz	≥ 55 kHz	
Filter Type(single pole)	Low Pass	Low Pass	
Electrical Filter Roll-off	6 dB/octave	6 dB/octave	
Electrical Filter Corner Frequency	>14 kHz	>14 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.008 g rms	0.078 m/s <sup>2</sup> rms	[1]
Non-Linearity	≤ 0.5 %	≤ 0.5 %	
Transverse Sensitivity	≤ 5 %	≤ 5 %	
<b>Environmental</b>			
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s <sup>2</sup> pk	
Temperature Range(Operating)	-65 to +325 °F	-54 to +163 °C	[1]
Temperature Response	See Graph	See Graph	
Temperature Coefficient of Sensitivity	≤ 0.011 %/°F	≤ 0.020 %/°C	
<b>Electrical</b>			
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 12 VDC	7 to 12 VDC	
Discharge Time Constant	0.6 to 2 sec	0.6 to 2 sec	
Settling Time(within 10% of bias)	<3 sec	<3 sec	
Spectral Noise(1 Hz)	1700 µg/√Hz	16,660 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(10 Hz)	500 µg/√Hz	4900 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	200 µg/√Hz	1960 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	100 µg/√Hz	980 (µm/sec <sup>2</sup> )/√Hz	[1]
<b>Physical</b>			
Sensing Element	UHT-12™	UHT-12™	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.4 in x 0.4 in x 0.4 in	10.2 mm x 10.2 mm x 10.2 mm	[1]
Weight	0.14 oz	4 gm	
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 the standard model except where noted below. More than one option may be used.

**NOTES:**  
[1] Typical.  
[2] See PCB Declaration of Conformance PS023 for details.

**SUPPLIED ACCESSORIES:**  
Model 034K10 Cable 10FT Mini 4 Pin To (3) BNC (1)  
Model 080A109 Petro Wax (1)  
Model 080A90 Quick Bonding Gel (1)  
Model 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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Entered: LK	Engineer: GJR	Sales: JC	Approved: BAM	Spec Number:
Date: 3/30/2017	Date: 3/30/2017	Date: 3/30/2017	Date: 3/30/2017	<b>39999</b>

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