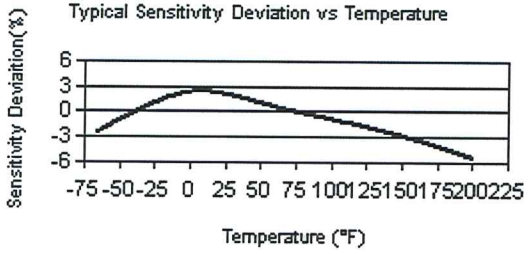
Model Number	ICP® TO-5 ACCELEROMETER	Revision: A
66212ANZ1		ECN #: 35587

	ENGLISH	SI	
Performance			
Sensitivity(± 20 %)	100 mV/g	1.02 mV/(m/s²)	[2]
Measurement Range	± 50 g	± 490 m/s²	[3]
Frequency Range(± 3 dB)	30 to 60,000 cpm	0.5 to 10,000 Hz	[4][5]
Resonant Frequency	1500 kcpm	25 kHz	[1][5]
Broadband Resolution(1 to 10,000 Hz)	350 µg rms	3434 µm/sec² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[6]
Transverse Sensitivity	≤ 7 %	≤ 7 %	
Environmental			
Overload Limit(Shock)	5000 g pk	49,000 m/s² pk	
Temperature Range(Operating)	-65 to +185 °F	-54 to +85 °C	
Temperature Response	See Graph	See Graph	[1]
Electrical			
Settling Time(within 1% of bias)	≤ 2 sec	≤ 2 sec	
Discharge Time Constant	0.3 sec	0.3 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<150 ohm	<150 ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise(10 Hz)	8 µg/√Hz	78.5 (µm/sec²)/√Hz	[1]
Spectral Noise(100 Hz)	5 µg/√Hz	49.1 (µm/sec²)/√Hz	[1]
Spectral Noise(1 kHz)	4 µg/√Hz	39.2 (µm/sec²)/√Hz	[1]
Physical			
Size (Lip Diameter x Height)	0.36 in x 0.38 in	9.1 mm x 9.7 mm	
Weight	0.1 oz	3 gm	
Mounting	Adhesive/Solder	Adhesive/Solder	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	Header Pins	Header Pins	
Electrical Connection Position	Bottom	Bottom	
Electrical Connections(Pin 1)	Signal / Power	Signal / Power	
Electrical Connections(Pin 2)	Ground	Ground	
Electrical Connections(Pin 3)	Not Used	Not Used	

CE [7]



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.

HT - High temperature, extends normal operation temperatures

Temperature Range(Operating)	-65 to 250 °F	-54 to +121 °C

RH - RoHS Compliant

NOTES:

[1] Typical.
[2] Conversion Factor 1g = 9.81 m/s².
[3] Negative output in upward direction when pin mounted.
[4] The high frequency tolerance is accurate within ±10% of the specified frequency.
[5] Performance depends on mounting
[6] Zero-based, least-squares, straight line method.
[7] See PCB Declaration of Conformance PS023 or PS060 for details.

SUPPLIED ACCESSORIES:

Model ICS-2 NIST-traceable single-axis single-point amplitude response calibration at 6000 cpm (100 Hz) (1)

Entered:	Engineer:	Sales:	Approved:	Spec Number:
Date: 4/21/11	Date: 4/21/11	Date: 4/21/11	Date: 4/21/11	46761

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