Model Number 66212ANZ1

ICP® TO-5 ACCELEROMETER

Revision: A ECN #: 35587

Performance			
to the state of th	<u>ENGLISH</u>	<u>SI</u>	1100
Sensitivity(± 20 %)	100 mV/g	1.02 mV/(m/s²)	[2
Measurement Range	± 50 g	± 490 m/s ²	[3
requency Range(± 3 dB)	30 to 60,000 cpm	0.5 to 10,000 Hz	[4]
Resonant Frequency	1500 kcpm	25 kHz	[1][
Broadband Resolution(1 to 10,000 Hz)	350 µg rms	3434 µm/sec ² rms	[1
Ion-Linearity	≤ 1 %	≤ 1 %	[6
ransverse Sensitivity	≤ 7 %	≤ 7 %	
Environmental			
Overload Limit(Shock)	5000 g pk	49,000 m/s ² pk	
emperature Range(Operating)	-65 to +185 °F	-54 to +85 °C	
emperature Response	See Graph	See Graph	[1
Electrical		oos orapii	200
settling Time(within 1% of bias)	≤ 2 sec	≤ 2 sec	
Discharge Time Constant	0.3 sec	0.3 sec	
xcitation 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	
pectral Noise(10 Hz)	8 µg/√Hz		[1
pectral Noise(100 Hz)	5 μg/√Hz	78.5 (µm/sec ²)/√Hz	9730
pectral Noise(1 kHz)		49.1 (µm/sec ²)/√Hz	[1
Physical	4 μg/√Hz	39.2 (µm/sec ²)/√Hz	[1
ize (Lip Diameter x Height)		1207	
Veight	0.36 in x 0.38 in	9.1 mm x 9.7 mm	
lounting	0.1 oz	3 gm	
ensing Element	Adhesive/Solder	Adhesive/Solder	
N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1	Ceramic	Ceramic	
ensing Geometry	Shear	Shear	
ousing Material	Stainless Steel	Stainless Steel	
ealing	Welded Hermetic	Welded Hermetic	
lectrical Connector	Header Pins	Header Pins	
lectrical Connection Position	Bottom	Bottom	
lectrical Connections(Pin 1)	Signal / Power	Signal / Power	
lectrical Connections(Pin 2)	Ground	Ground	
ectrical Connections(Pin 3)	Not Used	Not Used	

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.

-65 to 250 °F

HT - High temperature, extends normal operation temperatures

Temperature Range(Operating)

-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: Omw	Engineer:	Sales: DAC	Approved: pam	Spec Number:
Date: 4 21 11	Date:4 21 11	Date:4 2	Date: 4 31 11	46761



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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.

-75-50-25 0 25 50 75 100125150175200225 Temperature (°F)

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