Model Number EX600B13

VERY HIGH TEMPERATURE INDUSTRIAL ICP® ACCELEROMETER

Revision: D ECN #: 46623

	-11011011		
Performance	<u>ENGLISH</u>	<u>SI</u>	
Sensitivity(± 5 %)	100.0 mV/g	10.2 mV/(m/s²) [2]	
Measurement Range(Peak)	± 50 g	± 490 m/s ²	
Frequency Range(± 5 %)	282 to 210,000 cpm	4.7 to 3500 Hz	[3][4]
Frequency Range(± 10 %)	204 to 300,000 cpm	3.4 to 5000 Hz	
Resonant Frequency	1200 kcpm	20 kHz	[1]
Broadband Resolution(1 to 10,000 Hz)	450 μg	4415 µm/sec ²	[1][2]
Non-Linearity	± 1 % ± 1 %		[5]
Transverse Sensitivity	<5 %	<5 %	
Environmental			
Overload Limit(Shock)	1000 g pk	9810 m/s² pk	[2]
Temperature Range(Accelerometer)	-65 to +900 °F	-54 to +482 °C	
Temperature Range(Charge Amplifier)	-60 to +250 °F	-51 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	≤ 0.006 g/με	≤ 0.06 (m/s²)/με	[2]
Electrical			
Settling Time(at 70 °F within 1% of bias)	≤ 1.0 sec	≤ 1.0 sec	
Discharge Time Constant	≥ .10 sec	≥ .10 sec	
Excitation Voltage	22 to 28 VDC	22 to 28 VDC	
Constant Current Excitation	2.2 to 20 mA	2.2 to 20 mA	
Output Impedance	<1000 Ohm	<1000 Ohm	[1]
Output Bias Voltage	12 to 16 VDC	12 to 16 VDC	
Spectral Noise(10 Hz)	30 μg/√Hz	294 (µm/sec ²)/√Hz	[1][2]
Spectral Noise(100 Hz)	8 μg/√Hz	78 (µm/sec ²)/√Hz	[1][2]
Spectral Noise(1 kHz)	4 μg/√Hz	39 (µm/sec ²)/√Hz	[1][2]
Electrical Isolation	>10 ⁸ Ohm >10 ⁸ Ohm		
Physical		10 011111	
Size (Diameter x Height)	1.5 in x 0.75 in	38.1 mm x 19.1 mm	
Weight(with cable)	10.5 oz	300 gm	
Mounting	Through Holes (3) Through Holes (3)		
Sensing Element	UHT-12™	UHT-12™	
Sensing Geometry	Shear	Shear	
Housing Material	Inconel	Inconel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	2-Pin MIL-C-5015	2-Pin MIL-C-5015	
Electrical Connection Position	Side	Side	
Cable Length	10 ft	3 m	
Cable Type	Integral Hardline	Integral Hardline	
	Typical Sensitivity I	Deviation vs Temperature	
	չ@ 10⊤		

NOTES:

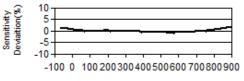
- [1] Typical value.

- [2] Conversion Factor 1g = 9.81 m/s².
 [3] 1Hz = 60 cpm (cycles per minute).
 [4] The high frequency tolerance is accurate within ±10% of the specified frequency.

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.

- [5] Zero-based, least-squares, straight line method.
 [6] See PCB Declaration of Conformance PS116 for details.





Temperature (°F)

SUPPLIED ACCESSORIES:

Model 081A99 Cap Screw (3)

Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency (1)

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	44818



Phone: 800-959-4464 Fax: 716-684-3823 E-Mail: imi@pcb.com





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.

ICP® is a registered trademark of PCB Group, Inc.