

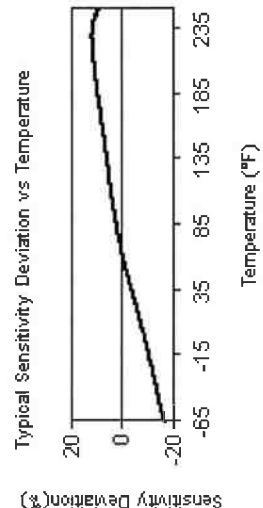
INDUSTRIAL ICP® ACCELEROMETER

ENGLISH

Performance	100 mV/g ± 50 g	[2]
Sensitivity(± 20 %)	± 490 m/s ²	[3]
Measurement Range	0.5 to 10,000 Hz	[1]
Frequency Range(± 3 dB)	25 kHz	[1]
Resonant Frequency	3434 µm/s ²	[4]
Broadband Resolution(1 to 10,000 Hz)	± 1 %	
Non-Linearity	≤ 7 %	
Transverse Sensitivity	49,050 m/s ² pk	[1]
Environmental	-65 to +250 °F	
Overload Limit(Shock)	See Graph	
Temperature Range	IP68	
Temperature Response		
Enclosure Rating		
Electrical		
Settling Time(within 1% of bias)	≤ 2.0 sec	
Discharge Time Constant	≥ 0.3 sec	
Excitation Voltage	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	
Output Impedance	<150 ohm	
Output Bias Voltage	8 to 12 VDC	
Spectral Noise(10 Hz)	8 µg/√Hz	[1]
Spectral Noise(100 Hz)	5 µg/√Hz	[1]
Spectral Noise(1 kHz)	4 µg/√Hz	[1]
Electrical Isolation(Case)	>10 ⁸ ohm	
Physical		
Size (Diameter x Height)	1.38 in x 1.00 in	
Weight	4.4 oz	
Mounting	Through Hole	
Mounting Thread	1/4-28 Male	
Mounting Torque	2 to 5 ft-lb	
Sensing Element	Ceramic	
Sensing Geometry	Shear	
Housing Material	Stainless Steel	
Sealing	Welded Hermetic	
Electrical Connector	2-Pin MIL-C-5015	
Electrical Connection Position	Side	

SI

10.2 mV/(m/s ²)	[2]
± 490 m/s ²	[3]
0.5 to 10,000 Hz	[1]
25 kHz	[1]
3434 µm/s ²	[4]
± 1 %	
≤ 7 %	
49,050 m/s ² pk	[1]
-65 to +121 °C	
See Graph	
IP68	
≤ 2.0 sec	
≥ 0.3 sec	
18 to 28 VDC	
2 to 20 mA	
<150 ohm	
8 to 12 VDC	
8 µg/√Hz	[1]
5 µg/√Hz	[1]
4 µg/√Hz	[1]
>10 ⁸ ohm	
1.38 in x 1.00 in	
35.1 mm x 25.4 mm	
124 gm	
Through Hole	
Not Applicable	
2.7 to 6.8 N-m	[5]
Ceramic	
Shear	
Stainless Steel	
Welded Hermetic	
2-Pin MIL-C-5015	
Side	



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.

SUPPLIED ACCESSORIES:
 Model 081A68 Captive mounting bolt 1/4-28 x .90" (1)
 Model ICS-2 NIST-traceable single-axis single-point amplitude response calibration at 6000 cpm (100 Hz) (1)

NOTES:
 [1] Typical.
 [2] Conversion Factor 1g = 9.81 m/s².
 [3] The high frequency tolerance is accurate within ±10% of the specified frequency.
 [4] Zero-based, least-squares, straight line method.
 [5] 1/4-28 has no equivalent in S.I. units.
 [6] See PCB Declaration of Conformance PS023 or PS060 for details.

M - Metric Mount
 Supplied Accessory : Model M081A68 Captive mounting bolt M6 x 1 (1) replaces Model 081A68

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.

EX - ATEX or ATEX and CSA Hazardous Area Approval
 Hazardous Area Approval EEx nL IIC T4, -40°CsTas121°
 Hazardous Area Approval EEx ia IIC T4, -40°CsTas121°
 Hazardous Area Approval EEx ia IIC T4, -40°CsTas121°
 Hazardous Area Approval CI I, Div I, Groups A, B, C, D; CI II, Div I, Groups E, F, G; CI III, Div I
 Hazardous Area Approval Exia IIC T4, AExia IIC, T4
 Hazardous Area Approval CI I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4

Entered: <i>[Signature]</i>	Engineer: <i>[Signature]</i>	Sales: <i>[Signature]</i>	Approved: <i>[Signature]</i>	Spec Number:
Date: 3/20/07	Date: 3/21/07	Date: 3/21/07	Date: 3/21/07	13267

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