

Model Number 124B23	ICP® PRESSURE SENSOR	Revision: NR ECN #: 48966
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Measurement Range	5 kpsi	34,475 kPa	
Sensitivity(± 15 %)	0.5 mV/psi	.073 mV/kPa	
Maximum Pressure(Total)	15 kpsi	103,421 kPa	
Resolution	200 psi	1.4 kPa	[2]
Resonant Frequency	15 kHz	15 kHz	[2]
Rise Time(Reflected)	≤ 30 μ sec	≤ 30 μ sec	
Low Frequency Response(-5 %)	0.001 Hz	0.001 Hz	
Non-Linearity	≤1.0 % FS	≤1.0 % FS	[3]
Environmental			
Acceleration Sensitivity	≤ 0.002 psi/g	≤ 0.0014 kPa/(m/s ²)	[1]
Temperature Range(Operating)	-100 to +250 °F	-73 to +121 °C	[1]
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C	
Maximum Shock	10,000 g pk	98,070 m/s ² pk	
Electrical			
Output Polarity(Positive Pressure)	Positive	Positive	
Discharge Time Constant(at room temp)	≥ 500 sec	≥ 500 sec	
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 100 Ohm	≤ 100 Ohm	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	
Electrical Isolation	≥10 ⁸ Ohm	≥10 ⁸ Ohm	
Physical			
Sensing Geometry	Compression	Compression	
Sensing Element	Quartz	Quartz	
Housing Material	Stainless Steel	Stainless Steel	
Diaphragm	Invar	Invar	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	4.0 oz	112 gm	
Water Flow Rate(at 50 psi)	1.2 gal/min	4.5 L/min	

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] Refers to operating temperature of the internal sensor without cooling.
 [2] Typical.
 [3] Zero-based, least-squares, straight line method.
 [4] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:
 Model 065A09 Seal ring 0.560" OD x 0.500" ID x 0.060" thk brass (3)



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.
 This model, designated with an RH prefix, is RoHS compliant. For further details, and to obtain PCB's RoHS Statement of Conformance, please visit <http://www.pcb.com>

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