



Model Number 113B23	ICP® PRESSURE SENSOR			Revision: F ECN #: 53357					
<p>Performance</p> <p>Measurement Range(for ±5V output) 10 kpsi</p> <p>Sensitivity(± 10 %) 0.5 mV/psi</p> <p>Maximum Pressure 15 kpsi</p> <p>Resolution 40 mpsi</p> <p>Resonant Frequency ≥ 500 kHz</p> <p>Rise Time ≤ 1.0 μ sec</p> <p>Low Frequency Response(- 5 %) 0.0005 Hz</p> <p>Non-Linearity ≤ 1.0 % FS</p> <p>Environmental</p> <p>Acceleration Sensitivity ≤ 0.002 psi/g</p> <p>Temperature Range(Operating) -100 to +275 °F</p> <p>Temperature Coefficient of Sensitivity ≤ 0.03 %/°F</p> <p>Maximum Flash Temperature 3,000 °F</p> <p>Maximum Vibration 2,000 g pk</p> <p>Maximum Shock 20,000 g pk</p> <p>Electrical</p> <p>Output Polarity(Positive Pressure) Positive</p> <p>Discharge Time Constant(at room temp) ≥ 1,000 sec</p> <p>Excitation Voltage 20 to 30 VDC</p> <p>Constant Current Excitation 2 to 20 mA</p> <p>Output Impedance < 100 Ohm</p> <p>Output Bias Voltage 8 to 14 VDC</p> <p>Physical</p> <p>Sensing Geometry Compression</p> <p>Sensing Element Quartz</p> <p>Housing Material 17-4 Stainless Steel</p> <p>Diaphragm Invar</p> <p>Sealing Welded Hermetic</p> <p>Electrical Connector 10-32 Coaxial Jack</p> <p>Weight 0.21 oz</p>	<p>ENGLISH</p>	<p>SI</p>	<p>[1]</p> <p>[2]</p> <p>[1]</p>	<p>OPTIONAL VERSIONS</p> <p>Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used. [4]</p> <p>E - Emralon coating Coating Emralon Electrical Isolation 10⁸ Ohm Supplied Accessory: Model 065A08 Isolation ring 0.250" OD x 0.218" ID x 0.027" thk anodized aluminum (3) Supplied Accessory: Model 065A22 Isolation Seal, .250" OD x .218" ID x .015", Torlon or Vespel (3) [4][5]</p> <p>J - Ground Isolated Electrical Isolation(50 V) 10⁸ Ohm 10⁸ Ohm [4]</p> <p>N - Negative Output Polarity [4]</p> <p>S - Stainless Steel Diaphragm Diaphragm 316L Stainless Steel 316L Stainless Steel [4][6]</p> <p>W - Water Resistant Cable Supplied Accessory: Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1) [4][6]</p> <p>WM - Water Resistant Cable Supplied Accessory: Model 060A05 Clamp nut M7 x 0.75-6g thd (1)</p>					
 [3]	<p>NOTES:</p> <p>[1]Typical.</p> <p>[2]Zero-based, least-squares, straight line method.</p> <p>[3]See PCB Declaration of Conformance PS023 for details.</p> <p>[4]For sensor mounted in thread adaptor, see adaptor installation drawing for supplied accessories and pressure limitations.</p> <p>[5]Used with optional mounting adaptor.</p> <p>[6]Clamp nut installed prior to cable attachment</p>								
	<p>SUPPLIED ACCESSORIES:</p> <p>Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1)</p> <p>Model 060A05 Clamp nut M7 x 0.75-6g thd (1)</p> <p>Model 065A02 Seal ring, sensor flush mount, 0.248" OD x 0.219" ID x 0.015" thk, brass (3)</p> <p>Model 065A05 Seal sleeve sensor recess mount 0.248" OD x 0.221" ID x 0.240" thk 17-4 (1)</p>								
Entered: ND		Engineer: RPF		Sales: RWM		Approved: RPF		Spec Number:	
Date: 12/01/2022		Date: 12/01/2022		Date: 12/01/2022		Date: 12/01/2022		40645	
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<p>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 Piezotronics, Inc.</p>									