



Model Number 113B23		ICP® PRESSURE SENSOR		Revision: C ECN #: 40791	
Performance		ENGLISH		SI	
Measurement Range(for ±5V output)	10 kpsi	68,950 kPa			
Sensitivity(± 0.03 mV/psi)	0.5 mV/psi	0.073 mV/kPa			
Maximum Pressure	15 kpsi	103,420 kPa			
Resolution	40 mpsi	0.28 kPa	[1]		
Resonant Frequency	≥ 500 kHz	≥ 500 kHz			
Rise Time	≤ 1.0 μ sec	≤ 1.0 μ sec			
Low Frequency Response(-5 %)	0.0005 Hz	0.0005 Hz			
Non-Linearity	≤ 1.0 % FS	≤ 1.0 % FS	[2]		
Environmental					
Acceleration Sensitivity	≤ 0.002 psi/g	≤ 0.0014 kPa/(m/s ²)			
Temperature Range(Operating)	-100 to +275 °F	-73 to +135 °C	[1]		
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C			
Maximum Flash Temperature	3000 °F	1649 °C			
Maximum Vibration	2000 g pk	19,614 m/s ² pk			
Maximum Shock	20,000 g pk	196,140 m/s ² pk			
Electrical					
Output Polarity(Positive Pressure)	Positive	Positive			
Discharge Time Constant(at room temp)	≥ 1000 sec	≥ 1000 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			
Physical					
Sensing Geometry	Compression	Compression			
Sensing Element	Quartz	Quartz			
Housing Material	17-4 Stainless Steel	17-4 Stainless Steel			
Diaphragm	Invar	Invar			
Sealing	Welded Hermetic	Welded Hermetic			
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack			
Weight	0.21 oz	6.0 gm			
					
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.					
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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.					
E - Emralon coating		Emralon		Emralon	
Coating		10 ⁸ Ohm		10 ⁸ Ohm	
Electrical Isolation					
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)					
H - Hermetic Seal		Welded Hermetic		Welded Hermetic	
Sealing					
J - Ground Isolated					
N - Negative Output Polarity					
S - Stainless Steel Diaphragm		316L Stainless Steel		316L Stainless Steel	
Diaphragm					
W - Water Resistant Cable					
Supplied Accessory : Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1)					
WM - Water Resistant Cable					
Supplied Accessory : Model 060A05 Clamp nut M7 x 0.75-6g thd (1)					
NOTES:					
[1] Typical.					
[2] Zero-based, least-squares, straight line method.					
[3] See PCB Declaration of Conformance PS023 for details.					
[4] For sensor mounted in thread adaptor, see adaptor installation drawing for supplied accessories.					
[5] Used with optional mounting adaptor.					
[6] Clamp nut installed prior to cable attachment					
SUPPLIED ACCESSORIES:					
Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1)					
Model 060A05 Clamp nut M7 x 0.75-6g thd (1)					
Model 065A02 Seal ring, sensor flush mount, 0.248" OD x 0.219" ID x 0.015" thk, brass (3)					
Model 065A05 Seal sleeve sensor recess mount 0.248" OD x 0.221" ID x 0.240" thk 17-4 (1)					
Entered: AP	Engineer: MJK	Sales: KWW	Approved: BAM	Spec Number:	
Date: 3/19/2013	Date: 3/19/2013	Date: 3/19/2013	Date: 3/19/2013	40645	
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