

Model Number 102A07		PRESSURE SENSOR, ICP®			Revision E ECN #: 24434		
Performance	Measurement Range (for ±5V output)	50 psi	345 kPa	[1]	Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.) CA - Ablative Coating H - Hermetic Seal M - Metric Mount Supplied Accessory: Model 065A42 Floating clamp nut and thread seal, M10 x 1.0 thd. replaces Model 065B01 N - Negative Output Polarity S - Stainless Steel Diaphragm Diaphragm316L Stainless Steel316L Stainless Steel		
	Useful Overrange (for ± 10V output)	100 psi	690 kPa				
	Sensitivity (±15 %)	100 mV/psi	14.5 mV/kPa				
	Maximum Pressure	500 psi	3447 kPa				
	Resolution	1 mpsi	0.007 kPa				
	Resonant Frequency	≥250 kHz	≥250 kHz				
	Rise Time	≤2 μ sec	≤2 μ sec				
	Low Frequency Response (-5 %)	0.5 Hz	0.5 Hz				
	Non-Linearity	≤1.0 % FS	≤1.0 % FS				[2]
	Environmental						
Acceleration Sensitivity	≤0.002 psi/g	≤0.0014 kPa/(m/s²)	Notes [1] For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias. [2] Zero-based, least-squares, straight line method. [3] See PCB Declaration of Conformance PS023 for details.				
Temperature Range (Operating)	-100 to +275 °F	-73 to +135 °C					
Temperature Coefficient of Sensitivity	≤0.03 %/°F	≤0.05 %/°C					
Maximum Flash Temperature	3000 °F	1650 °C					
Maximum Shock	20000 g pk	196000 m/s² pk					
Electrical							
Output Polarity (Positive Pressure)	Positive	Positive					
Discharge Time Constant (at room temp)	≥1 sec	≥1 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				Supplied Accessories 065B01 Floating clamp nut and thread seal 3/8-24 thd (1)			
Sensing Geometry	Compression	Compression					
Sensing Element	Quartz	Quartz					
Housing Material	Stainless Steel	Stainless Steel					
Diaphragm	Invar	Invar					
Sealing	Hermetic	Hermetic					
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack					
Weight	0.39 oz	11.0 gm					
CE [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.							
Entered: BLS		Engineer: RPF		Sales: DPC			
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