



Model Number 137B23A	ICP® PRESSURE SENSOR			Revision: C ECN #: 44078
Performance	ENGLISH	SI		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.
Measurement Range(for ±5V output)	50 psi	345 kPa	[1]	
Useful Overrange(for ± 10V output)	100 psi	690 kPa	[1]	NOTES: [1]For +10 volt output, minimum 26 VDC supply voltage required. Negative 10 volt output may be limited by output bias. [2]Typical. [3]Zero-based, least-squares, straight line method. [4]See PCB Declaration of Conformance PS023 for details.
Sensitivity(± 15 %)	100 mV/psi	14.5 mV/kPa	[1]	
Maximum Pressure	1000 psi	6895 kPa	[2]	
Resolution	0.01 psi	0.069 kPa	[2]	
Resonant Frequency	≥ 400 kHz	≥ 400 kHz	[2]	
Rise Time(Incident)	≤ 6.5 μ sec	≤ 6.5 μ sec	[3]	SUPPLIED ACCESSORIES: Model 085A43 Connector Protector (1) Model PCS-6 Calibration of Series 134, 137, and 138 (1)
Non-Linearity	≤ 1.0 % FS	≤ 1.0 % FS	[3]	
Environmental				Entered: AP Engineer: RPF Sales: RWM Approved: RPF Spec Number:
Temperature Range(Operating)	-100 to +275 °F	-73 to +135 °C	[2]	
Temperature Coefficient of Sensitivity	≤ 0.05 %/°F	≤ 0.090 %/°C	[2]	Date: 4/9/2015 Date: 4/9/2015 Date: 4/9/2015 Date: 4/9/2015 40954
Electrical				 [4] <i>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.</i>
Discharge Time Constant(at room temp)	≥ 0.2 sec	≥ 0.2 sec	[2]	
Excitation Voltage	22 to 30 VDC	22 to 30 VDC	[2]	 3425 Walden Avenue, Depew, NY 14043 Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com
Constant Current Excitation	2 to 20 mA	2 to 20 mA	[2]	
Output Impedance	≤ 100 Ohm	≤ 100 Ohm	[2]	
Output Bias Voltage	8 to 15 VDC	8 to 15 VDC	[2]	
Physical				
Sensing Geometry	Compression	Compression	[2]	
Sensing Element	Quartz	Quartz	[2]	
Housing Material	Aluminum	Aluminum	[2]	
Diaphragm	Invar	Invar	[2]	
Sealing	Epoxy	Epoxy	[2]	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	[2]	
Weight	12.5 oz	353 gm	[2]	