


Model Number 137B22A		ICP® PRESSURE SENSOR			Revision: A ECN #: 41884	
Performance	ENGLISH	SI			OPTIONAL VERSIONS	
Measurement Range(for ±5V output)	500 psi	3447 kPa			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 ±10V output)	1 kpsi	6895 kpsi	[1]			
Sensitivity(± 15 %)	10 mV/psi	1.45 mV/kPa				
Maximum Pressure	5 kpsi	34,474 kPa				
Resolution	1 mpsi	.007 kPa	[2]			
Resonant Frequency	≥ 400 kHz	≥ 400 kHz			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.	
Rise Time(Incident)	≤ 6.5 μ sec	≤ 6.5 μ sec				
Non-Linearity	≤ 1.0 % FS	≤ 1.0 % FS	[3]			
Environmental						
Temperature Range(Operating)	-100 to +275 °F	-73 to +135 °C				
Temperature Coefficient of Sensitivity	≤ 0.05 %/°F	≤ 0.090 %/°C			SUPPLIED ACCESSORIES: Model PCS-6 Calibration of Series 134, 137, and 138 (1)	
Electrical						
Discharge Time Constant(at room temp)	≥ 0.2 sec	≥ 0.2 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			Entered: AP Engineer: JDK Sales: RWM Approved: BAM Spec Number: Date: 8/14/2013 Date: 8/14/2013 Date: 8/14/2013 Date: 8/14/2013 55317	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC				
Physical						
Sensing Geometry	Compression	Compression				
Sensing Element	Quartz	Quartz				
Housing Material	Aluminum	Aluminum			PCB PIEZOTRONICS™ 3425 Walden Avenue, Depew, NY 14043 Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com	
Diaphragm	Invar	Invar				
Sealing	Epoxy	Epoxy				
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	[2]			
Weight	12.4 oz	352 gm				
	[4]					
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.						