

Model Number 137B24B		ICP® PRESSURE SENSOR		Revision: D ECN #: 55892	
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Measurement Range(for ±5V output)		250 psi	1,724 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.	
Useful Overrange(for ± 10V output)		500 psi	3,447 kPa		
Sensitivity(± 15 %)		20 mV/psi	2.90 mV/kPa		
Maximum Pressure		5 kpsi	34,474 kPa		
Resolution		.7 mpsi	.005 kPa		
Resonant Frequency		≥ 400 kHz	≥ 400 kHz		
Rise Time(Incident)		≤ 6.5 μ sec	≤ 6.5 μ sec		
Non-Linearity		≤ 1.0 % FS	≤ 1.0 % FS		
Environmental					
Temperature Range(Operating)		-100 to +275 °F	-73 to +135 °C		
Temperature Coefficient of Sensitivity		≤ 0.05 %/°F	≤ 0.090 %/°C		
Electrical				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.	
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		≤ 200 Ohm	≤ 200 Ohm		
Output Bias Voltage		8 to 14 VDC	8 to 14 VDC		
Physical					
Sensing Geometry		Compression	Compression		
Sensing Element		Quartz	Quartz		
Housing Material		Aluminum	Aluminum		
Diaphragm		Invar	Invar		
Sealing		Epoxy	Epoxy		
Electrical Connector		BNC Jack	BNC Jack		
Weight		12.4 oz	352 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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