



Model Number 137B25	ICP® PRESSURE SENSOR			Revision: C ECN #: 46873
Performance	ENGLISH	SI		OPTIONAL VERSIONS
Measurement Range(for ±5V output)	50 psi	345 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)	100 psi	690 kPa	[1]	
Sensitivity(± 15 %)	100 mV/psi	14.5 mV/kPa	[2]	
Maximum Pressure	1 kpsi	6895 kPa		
Resolution	10 mpsi	0.069 kPa	[3]	
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	[4]	
Environmental				NOTES:
Temperature Range(Operating)	-100 to +275 °F	-73 to +135 °C		[1] For +10 volt output, minimum 26 VDC supply voltage required. Negative 10 volt output may be limited by output bias.
Temperature Coefficient of Sensitivity	≤ 0.05 %/°F	≤ 0.090 %/°C		[2] Two identically spec'd elements spaced 10cm apart - see drawing #65310 for details. Individual calibration certs supplied for each channel.
Electrical				[3] Typical.
Discharge Time Constant(at room temp)	≥ 0.3 sec	≥ 0.3 sec		[4] Zero-based, least-squares, straight line method.
Excitation Voltage	22 to 30 VDC	22 to 30 VDC		[5] See PCB Declaration of Conformance PS023 for details.
Constant Current Excitation	2 to 20 mA	2 to 20 mA		
Output Impedance	≤ 100 Ohm	≤ 100 Ohm		
Output Bias Voltage	8 to 15 VDC	8 to 15 VDC		
Physical				SUPPLIED ACCESSORIES:
Sensing Geometry	Compression	Compression		Model PCS-6 Calibration of Series 134, 137, and 138 (2)
Sensing Element	Quartz	Quartz		OPTIONAL ACCESSORIES:
Housing Material	Aluminum	Aluminum		Model 010AYXXXQM 4-socket plug to double splice BNC plugs
Diaphragm	Invar	Invar		
Sealing	Epoxy	Epoxy		
Electrical Connector	4-Pin	4-Pin	[2]	
Weight	16.1 oz	456 gm	[3]	
				
<p>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.</p>				
			Entered: JM	Engineer: DK
			Date: 6/6/2017	Date: 6/6/2017
			Sales: RWM	Approved: BAM
			Date: 6/6/2017	Date: 6/6/2017
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