Model Number 137B24A	ICP® PRESSURE SENSOR			
Performance	ENGLISH	SI		
Measurement Range(for ±5V output)	250 psi	1,724 kPa		Optional versions
Useful Overrange(for ± 10V output)	500 psi	3,447 kpsi	[1]	
Sensitivity(± 15 %)	20 mV/psi	2.90 mV/kPa		
Maximum Pressure	5 kpsi	34,474 kPa		
Resolution	.7 mpsi	.005 kPa	[2]	
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	[3]	
Environmental				
Temperature Range(Operating)	-100 to +275 °F	-73 to +135 ℃		
Temperature Coefficient of Sensitivity	≤ 0.05 %/°F	≤ 0.090 %/°C		
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	≤ 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	Ероху	Ероху		
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack		
Weight	12.5 oz	354 gm	[2]	

OPTIONAL VERSIONS

Revision: C

ECN #: 55416

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

[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.

SUPPLIED ACCESSORIES:

Model 085A43 Connector Protector (1)

Model PCS-1AZ Sensitivity calibration at 100% and 10% of sensor range

CE UK

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 Piezotronics, Inc.

Entered: ND Engineer: RPF Sales: MV Approved: RPF Spec Number: Date: 12/14/2024 Date: 12/14/2024 Date: 12/14/2024 Date: 12/14/2024 55319



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