

Model Number
137B29B

ICP® PRESSURE SENSOR

Revision: B
ECN #: 55416

Performance	ENGLISH	SI	
Measurement Range(for ±5V output)	25 psi	173 kPa	
Useful Overrange(for ± 10V output)	50 psi	345 kPa	[1]
Sensitivity(± 15 %)	200 mV/psi	29 mV/kPa	
Maximum Pressure	1,000 psi	6,895 kPa	
Resolution	.0002 psi	0.001 kPa	[2]
Resonant Frequency	≥ 300 kHz	≥ 300 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 °C	
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	22 to 30 VDC	22 to 30 VDC	
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			
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	[2]

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.

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.

SUPPLIED ACCESSORIES:

Model PCS-1 Calibration of dynamic pressure sensors up to 100% range (1)

Entered: ND	Engineer: RPF	Sales: MV	Approved: RPF	Spec Number:
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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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