

Model Number <b>137B27</b>	<b>ICP® PRESSURE SENSOR</b>	Revision: NR ECN #: 47071
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	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Measurement Range(for ±5V output)	500 psi	3447 kPa	
Useful Overrange(for ± 10V output)	1 kpsi	6895 kPa	[1]
Sensitivity(± 15 %)	10 mV/psi	1.45 mV/kPa	[2]
Maximum Pressure	5 kpsi	34,474 kPa	
Resolution	1 mpsi	0.007 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]
<b>Environmental</b>			
Temperature Range(Operating)	-100 to +275 °F	-73 to +135 °C	
Temperature Coefficient of Sensitivity	≤ 0.05 %/°F	≤ 0.090 %/°C	
<b>Electrical</b>			
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	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	
<b>Physical</b>			
Sensing Geometry	Compression	Compression	
Sensing Element	Quartz	Quartz	
Housing Material	Aluminum	Aluminum	
Diaphragm	Invar	Invar	
Sealing	Epoxy	Epoxy	
Electrical Connector	4-Pin	4-Pin	[2]
Weight	16.1 oz	456 gm	[3]

**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] Two identically spec'd elements spaced 10cm apart - see drawing #65310 for details. Individual calibration certs supplied for each channel.

[3] Typical.

[4] Zero-based, least-squares, straight line method.

[5] See PCB Declaration of Conformance PS023 for details.

**SUPPLIED ACCESSORIES:**

Model PCS-6 Calibration of Series 134, 137, and 138 (2)

Entered: LK	Engineer: DK	Sales: RWM	Approved: BAM	Spec Number:
Date: 7/26/2017	Date: 7/26/2017	Date: 7/26/2017	Date: 7/26/2017	<b>67323</b>



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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3425 Walden Avenue, Depew, NY 14043

**Phone: 716-684-0001**  
**Fax: 716-684-0987**  
**E-Mail: info@pcb.com**