Model Number **102B03**	**ICP® PRESSURE SENSOR**	Revision A ECN #: 29294

Performance	**ENGLISH**	**SI**	
Measurement Range (for ±5V output)	10 kpsi	69000 kPa	
Sensitivity (±0.03 mV/psi)	0.5 mV/psi	0.07 mV/kPa	
Maximum Pressure	15 kpsi	103420 kPa	
Resolution	40 mpsi	0.28 kPa	[1]
Resonant Frequency	≥500 kHz	≥500 kHz	
Rise Time (Reflected)	≤1.0 µ sec	≤1.0 µ sec	
Low Frequency Response (-5 %)	0.0005 Hz	0.0005 Hz	
Non-Linearity	≤1.0 % FS	≤1.0 % FS	[2]
Environmental			
Acceleration Sensitivity	≤0.002 psi/g	≤0.0014 kPa/(m/s²)	
Temperature Range (Operating)	-100 to +275 °F	-73 to +135 °C	
Temperature Coefficient of Sensitivity	≤0.03 %/°F	≤0.054 %/°C	[1]
Maximum Flash Temperature	3000 °F	1649 °C	
Maximum Shock	20000 g pk	196000 m/s² pk	
Electrical			
Output Polarity (Positive Pressure)	Positive	Positive	
Discharge Time Constant (at room temp)	≥1000 sec	≥1000 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	
Electrical Isolation	10^8 Ohm	10^8 Ohm	
Physical			
Sensing Geometry	Compression	Compression	
Sensing Element	Quartz	Quartz	
Housing Material	Stainless Steel	Stainless Steel	
Diaphragm	Invar	Invar	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	0.41 oz	11.6 gm	

CE[3]

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.

Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

CA - Ablative Coating
H - Hermetic Seal

Sealing	Welded Hermetic	Welded Hermetic

M - Metric Mount
Supplied Accessory: Model 065A40 Seal ring, 0.435" OD x 0.397" ID x 0.030" thk, brass (for Models 061A07 and 061A10 thread adaptors) replaces Model 065A03
N - Negative Output Polarity
S - Stainless Steel Diaphragm

Diaphragm	316L Stainless Steel	316L Stainless Steel

W - Water Resistant Cable

Notes
[1] Typical.
[2] Zero-based, least-squares, straight line method.
[3] See PCB Declaration of Conformance PS023 for details.

Supplied Accessories
065A03 Seal ring 0.435" OD x 0.377" ID x 0.030" thk brass (3)

Entered: BLS	Engineer: NJL	Sales: RPF	Approved: BLS	Spec Number:
Date: 08/28/2008	Date: 08/26/2008	Date: 08/26/2008	Date: 08/28/2008	**40728**

PCB PIEZOTRONICS
PRESSURE DIVISION
3425 Walden Avenue
Depew, NY 14043
UNITED STATES
Phone: 800-828-8840
Fax: 716-684-0987
E-mail: info@pcb.com
Web site: www.pcb.com