


Model Number <b>118A02</b>	<b>CHARGE OUTPUT PRESSURE SENSOR</b>		Revision: J ECN #: 34894
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>	<b>OPTIONAL VERSIONS</b> Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.  <b>M</b> - Metric Mount  <b>P</b> - Positive Output Polarity  <b>W</b> - Water Resistant Cable
Sensitivity(± 15 %)	0.1 pC/psi	0.014 pC/kPa	
Measurement Range	20 kpsi	137,900 kPa	[2]
Maximum Pressure(static)	50 kpsi	344,750 kPa	
Resolution	200 mpsi	1.4 kPa	[1]
Resonant Frequency	≥ 250 kHz	≥ 250 kHz	
Rise Time(Reflected)	≤ 2.0 μ sec	≤ 2.0 μ sec	[2]
Non-Linearity	≤ 2.0 % FS	≤ 2.0 % FS	
<b>Environmental</b>			<b>NOTES:</b> [1] Nominal. [2] Zero-based, least-squares, straight line method.
Acceleration Sensitivity	≤ 0.05 psi/g	≤ 0.035 kPa/(m/s <sup>2</sup> )	
Temperature Range(Operating)	-400 to +400 °F	-240 to +204 °C	[1]
Temperature Coefficient of Sensitivity	≤ 0.1 %/°F	≤ 0.18 %/°C	
Maximum Flash Temperature	3000 °F	1649 °C	<b>SUPPLIED ACCESSORIES:</b> Model 065A06 Seal ring 0.318" OD x 0.250" ID x 0.010" thk 316L SS material (3)
Maximum Vibration	2000 g pk	19,620 m/s <sup>2</sup> pk	
Maximum Shock	20,000 g pk	196,200 m/s <sup>2</sup> pk	[1]
<b>Electrical</b>			
Output Polarity(Positive Pressure)	Negative	Negative	<b>Entered:</b> <i>LT</i> <b>Engineer:</b> <i>APB</i> <b>Sales:</b> <i>KWW</i> <b>Approved:</b> <i>EB</i> <b>Spec Number:</b>
Capacitance	10 pF	10 pF	
Insulation Resistance(at room temp)	≥ 10 <sup>12</sup> ohm	≥ 10 <sup>12</sup> ohm	<b>Date:</b> <i>1-25-11</i> <b>Date:</b> <i>1-20-11</i> <b>Date:</b> <i>1-20-11</i> <b>Date:</b> <i>1-21-11</i> <b>118-1020-80</b>
<b>Physical</b>			 <b>PCB PIEZOTRONICS™</b> <b>PRESSURE DIVISION</b> Phone: 716-684-0001 Fax: 716-686-9129 E-Mail: <a href="mailto:pressure@pcb.com">pressure@pcb.com</a> 3425 Walden Avenue, Depew, NY 14043
Sensing Element	Quartz	Quartz	
Sensing Geometry	Compression	Compression	
Housing Material	C-300	C-300	
Diaphragm	C-300	C-300	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	0.42 oz	12.0 gm	
<i>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.</i>			
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