

Model Number 118A02		CHARGE OUTPUT PRESSURE SENSOR		Revision: J ECN #: 34894	
Performance		ENGLISH		SI	
Sensitivity(± 15 %)		0.1 pC/psi		0.014 pC/kPa	
Measurement Range		20 kpsi		137,900 kPa	
Maximum Pressure(static)		50 kpsi		344,750 kPa	
Resolution		200 mpsi		1.4 kPa	
Resonant Frequency		≥ 250 kHz		≥ 250 kHz	
Rise Time(Reflected)		≤ 2.0 μ sec		≤ 2.0 μ sec	
Non-Linearity		≤ 2.0 % FS		≤ 2.0 % FS	
Environmental					
Acceleration Sensitivity		≤ 0.05 psi/g		≤ 0.035 kPa/(m/s²)	
Temperature Range(Operating)		-400 to +400 °F		-240 to +204 °C	
Temperature Coefficient of Sensitivity		≤ 0.1 %/°F		≤ 0.18 %/°C	
Maximum Flash Temperature		3000 °F		1649 °C	
Maximum Vibration		2000 g pk		19,620 m/s² pk	
Maximum Shock		20,000 g pk		196,200 m/s² pk	
Electrical					
Output Polarity(Positive Pressure)		Negative		Negative	
Capacitance		10 pF		10 pF	
Insulation Resistance(at room temp)		≥ 10 ¹² ohm		≥ 10 ¹² ohm	
Physical					
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	
[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.					
M - Metric Mount					
P - Positive Output Polarity					
W - Water Resistant Cable					
NOTES:					
[1] Nominal.					
[2] Zero-based, least-squares, straight line method.					
SUPPLIED ACCESSORIES:					
Model 065A06 Seal ring 0.318" OD x 0.250" ID x 0.010" thk 316L SS material (3)					
Entered: Lot		Engineer: APB		Sales: KWW	
Date: 1-25-11		Date: 1-20-11		Date: 1-20-11	
Approved: EB		Spec Number:		118-1020-80	
					
Phone: 716-684-0001					
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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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