Model Number 118A07	CHARGE OUTPUT PRESSURE SENSOR	Revision: E ECN #: 49945

Performance	ENGLISH	SI	
Sensitivity(± 15 %)	0.28 pC/psi	0.041 pC/kPa	
Measurement Range	15 kpsi	103,400 kPa	
Maximum Pressure	35 kpsi	241,316 kPa	[1]
Resolution	10 mpsi	0.069 kPa	[2]
Resonant Frequency	≥ 175 kHz	≥ 175 kHz	
Rise Time(Reflected)	≤ 2.5 µ sec	≤ 2.5 µ sec	
Non-Linearity	≤ .5 % FS	≤ .5 % FS	[3]
Environmental			
Acceleration Sensitivity	≤ 0.03 psi/g	≤ 0.021 kPa/(m/s^2)	
Temperature Range(Operating)	-50 to +325 °F	-46 to +163 °C	
Temperature Coefficient of Sensitivity	≤ 0.06 %/°F	≤ 0.108 %/°C	
Maximum Flash Temperature	3,000 °F	1,649 °C	
Maximum Shock	20,000 g pk	196,140 m/s^2 pk	
Electrical			
Output Polarity(Positive Pressure)	Negative	Negative	
Capacitance	5 pF	5 pF	[4]
Insulation Resistance	≥ 10^{12} Ohm	≥ 10^{12} Ohm	
Physical			
Sensing Element	Quartz	Quartz	
Housing Material	Stainless Steel	Stainless Steel	
Diaphragm	Stainless Steel	Stainless Steel	
Sealing	Epoxy	Epoxy	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	0.52 oz	14.6 gm	

CE[5]

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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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]Non-Linearity for maximum pressure will be ≤ 2.0%
[2]Resolution dependent on range setting and cable length used in charge system.
[3]Zero-based, least-squares, straight line method.
[4]Typical.
[5]See PCB Declaration of Conformance PS158 for details.

SUPPLIED ACCESSORIES:

Model 065A06 Seal ring 0.318" OD x 0.250" ID x 0.010" thk 316L SS material (3)
Model 065A19 Spacer set, 0.250" ID (1)

Entered: RB	Engineer: RPF	Sales: RWM	Approved: RPF	Spec Number:
Date: 09/11/2019	Date: 09/11/2019	Date: 09/11/2019	Date: 09/11/2019	61551

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