

Model Number

118B11

CHARGE OUTPUT PRESSURE SENSOR

Revision: J

ECN #: 34697

Performance

	ENGLISH	SI	
Sensitivity(± 25 %)	0.11 pC/psi	0.016 pC/kPa	
Measurement Range	80 kpsi	552,000 kPa	
Maximum Pressure	100 kpsi	690,000 kPa	
Resolution	≤ 20 mpsi	≤ 0.138 kPa	[1]
Resonant Frequency	≥ 250 kHz	≥ 250 kHz	
Rise Time	≤ 2.0 μ sec	≤ 2.0 μ sec	
Non-Linearity	≤ 2.0 % FS	≤ 2.0 % FS	[2]

Environmental

Acceleration Sensitivity	≤ 0.03 psi/g	≤ 0.021 kPa/(m/s ²)	
Temperature Range(Operating)	-320 to +400 °F	-196 to +204 °C	
Temperature Coefficient of Sensitivity	≤ 0.1 %/°F	≤ 0.18 %/°C	
Maximum Flash Temperature	4000 °F	2204 °C	
Maximum Shock	20,000 g pk	196,200 m/s ² pk	

Electrical

Output Polarity(Positive Pressure)	Negative	Negative	
Capacitance	4 to 7 pF	4 to 7 pF	
Insulation Resistance(at room temp)	≥ 10 ¹² ohm	≥ 10 ¹² ohm	

Physical

Sensing Element	Quartz	Quartz	
Housing Material	C-300	C-300	
Diaphragm	C-300	C-300	[3]
Sealing	Epoxy	Epoxy	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	0.4 oz	11 gm	

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.

H - Hermetic Seal

M - Metric Mount

P - Positive Output Polarity

W - Water Resistant Cable

NOTES:

[1] Resolution dependent on range setting and cable length used in charge system.

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

[3] Ceramic coated.

SUPPLIED ACCESSORIES:

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

Entered: <i>lt</i>	Engineer: <i>ngz</i>	Sales: <i>DPC</i>	Approved: <i>EB</i>	Spec Number:
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