

Model Number

119B11

CHARGE OUTPUT PRESSURE SENSOR

Revision: D

ECN #: 27048

Performance

	ENGLISH	SI
Sensitivity(± 15 %)	0.25 pC/psi	0.036 pC/kPa
Measurement Range	0 to 80,000 psi	0 to 552,000 kPa
Maximum Pressure	100 kpsi	690,000 kPa
Resolution	≤ 1 psi	≤ 7 kPa
Resonant Frequency	≥ 400 kHz	≥ 400 kHz
Rise Time(Reflected)	≤ 2 μ sec	≤ 2 μ sec
Non-Linearity	≤ 2 % FS	≤ 2 % FS

Environmental

Acceleration Sensitivity	≤ 0.02 psi/g	≤ 0.015 kPa/(m/s ²)
Temperature Range(Operating)	-300 to 400 °F	-184 to 204 °C
Temperature Coefficient of Sensitivity	≤ 0.07 %/°F	≤ 0.126 %/°C
Maximum Flash Temperature	4000 °F	2204 °C
Maximum Vibration	2000 g pk	19,614 m/s ² pk
Maximum Shock	50,000 g pk	490,330 m/s ² pk

Electrical

Output Polarity(Positive Pressure)	Negative	Negative
Capacitance	20 pF	20 pF
Insulation Resistance(at room temp)	≥ 1E12 ohm	≥ 1E12 ohm

Physical

Sensing Element	Quartz	Quartz
Housing Material	C-300	C-300
Diaphragm	C-300	C-300
Sealing	Epoxy	Epoxy
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack
Weight	.5 oz	14 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		
Housing Material	17-4 Stainless Steel	17-4 Stainless Steel
Maximum Shock	20,000 g pk	196,200
Sealing	Welded Hermetic	Welded Hermetic

M - Metric Mount**P** - Positive Output Polarity**W** - Water Resistant Cable**NOTES:**

- [1] Nominal.
 [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 (3)

Entered: BLS	Engineer: RF	Sales: DPC	Approved: RF	Spec Number:
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