

Model Number
119C12

CHARGE OUTPUT PRESSURE SENSOR

Revision: B
ECN #: 55114

	ENGLISH	SI	
Performance			
Sensitivity(± 15 %)	0.25 pC/psi	0.036 pC/kPa	
Measurement Range	100,000 psi	690,000 kPa	
Maximum Pressure	125,000 psi	862,000 kPa	
Resonant Frequency	≥ 400 kHz	≥ 400 kHz	
Rise Time(Reflected)	≤ 2 μ sec	≤ 2 μ sec	
Non-Linearity	≤ 2 % FS	≤ 2 % FS	[1]
Environmental			
Acceleration Sensitivity	0.02 psi/g	0.014 kPa/(m/s ²)	[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	4,000 °F	2,204 °C	
Maximum Vibration	2,000 g pk	19,600 m/s ² pk	
Maximum Shock	50,000 g pk	490,000 m/s ² pk	
Electrical			
Output Polarity(Positive Pressure)	Negative	Negative	
Capacitance	20 pF	20 pF	[2]
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	
Sealing	Epoxy	Epoxy	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	.5 oz	14 gm	

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]Zero-based, least-squares, straight line method.
- [2]Typical.
- [3]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 PCS-2 Calibration of dynamic pressure sensors to full scale measurement range up to 100k psi

Entered: ND	Engineer: RPF	Sales: MV	Approved: RPF	Spec Number:
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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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