

Model Number
112B05

CHARGE OUTPUT PRESSURE SENSOR

Revision: D
ECN #: 56697

	ENGLISH	SI	
Performance			
Sensitivity(± 15 %)	1.1 pC/psi	.16 pC/kPa	
Measurement Range	5,000 psi	34,475 kPa	
Maximum Pressure(Total)	10,000 psi	68,950 kPa	
Resonant Frequency	≥ 200 kHz	≥ 200 kHz	
Rise Time(Reflected)	≤ 2.0 μ sec	≤ 2.0 μ sec	
Non-Linearity	≤ 1.0 % FS	≤ 1.0 % FS	[1]
Environmental			
Maximum Shock	10,000 g pk	98,000 m/s ² pk	
Acceleration Sensitivity	0.003 psi/g	0.0021 kPa/(m/s ²)	[2]
Temperature Range(Operating)	-400 to +500 °F	-240 to +260 °C	
Temperature Response	See Graph	See Graph	[2]
Maximum Flash Temperature	3,000 °F	1,649 °C	
Maximum Vibration	5,000 g pk	49,000 m/s ² pk	
Electrical			
Output Polarity(Positive Pressure)	Negative	Negative	
Capacitance	24 pF	24 pF	[2]
Insulation Resistance(at room temp)	≥ 10 ¹² Ohm	≥ 10 ¹² Ohm	
Insulation Resistance(500°F/260°C)	≥ 10 ⁹ Ohm	≥ 10 ⁹ Ohm	
Physical			
Sensing Element	Quartz	Quartz	
Sensing Geometry	Compression	Compression	
Housing Material	17-4 Stainless Steel	17-4 Stainless Steel	
Diaphragm	316L Stainless Steel	316L Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	0.21 oz	6.0 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.

- P** - Positive Output Polarity
Output Polarity(Positive Pressure) Positive Positive [4]
- W** - Water Resistant Cable
Supplied Accessory: Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1) [4]
- WM** - Water Resistant Cable
Supplied Accessory: Model 060A05 Clamp nut M7 x 0.75-6g thd (1) [4]

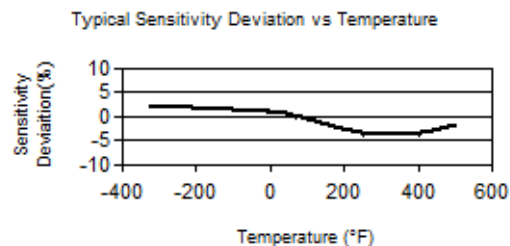
NOTES:

- [1]Zero-based, least-squares, straight line method.
[2]Typical.
[3]See PCB Declaration of Conformance PS158 for details.
[4]Clamp nut installed prior to cable attachment

SUPPLIED ACCESSORIES:

- Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1)
Model 060A05 Clamp nut M7 x 0.75-6g thd (1)
Model 065A02 Seal ring, sensor flush mount, 0.248" OD x 0.219" ID x 0.015" thk, brass (3)
Model 065A05 Seal sleeve sensor recess mount 0.248" OD x 0.221" ID x 0.240" thk 17-7 (1)
Model 065A29 Seal, .250" OD x .218" ID x .015", 316L (2)
Model PCS-1BA Sensitivity calibration at 100%, 10% and 2% of sensor range

Entered: ND	Engineer: AJA	Sales: RWM	Approved: AJA	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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