Model Number 106B	ICP® PRESSURE SENSOR	Revision: AB ECN #: 54898

Performance	ENGLISH	SI	
Measurement Range	8.0 psi	55.1 kPa	
Sensitivity(± 15 %)	300 mV/psi	43.5 mV/kPa	
Maximum Pressure(step)	200 psi	1,379 kPa	
Maximum Pressure	2,000 psi	13,790 kPa	[1]
Resolution	0.0001 psi	0.00069 kPa	[1]
Resonant Frequency	≥ 60 kHz	≥ 60 kHz	
Rise Time	≤ 9 µ sec	≤ 9 µ sec	
Low Frequency Response(- 5 %)	0.5 Hz	0.5 Hz	
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[2]
Environmental			
Acceleration Sensitivity	0.002 psi/g	0.0014 kPa/(m/s^2)	[1]
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Coefficient of Sensitivity	≤ 0.05 %/°F	≤ 0.09 %/°C	
Maximum Flash Temperature	3,000 °F	1,649 °C	
Maximum Vibration	1,000 g pk	1,000 g pk	
Maximum Shock	2,000 g pk	19,600 m/s^2 pk	
Electrical			
Output Polarity(Positive Pressure)	Positive	Positive	
Discharge Time Constant(at room temp)	≥ 1 sec	≥ 1 sec	
Excitation Voltage	12 to 30 VDC	12 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 100 Ohm	≤ 100 Ohm	
Output Bias Voltage	3 to 8 VDC	3 to 8 VDC	
Physical			
Sensing Geometry	Compression	Compression	
Sensing Element	Quartz	Quartz	
Housing Material	304/304L Stainless Steel	304/304L 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	0.63 oz	18.0 gm	

CE

UK CA [3]

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.

CA - Ablative Coating [4]

E - Emralon coating

Coating	Emralon	Emralon
Electrical Isolation	10^8 Ohm	10^8 Ohm

Optional Accessory: Model 065A47 Seal ring 0.497 OD x 0.437 ID x 0.025 thk Acetal (3)

J - Ground Isolated

Electrical Isolation(50 V)	10^8 Ohm	10^8 Ohm

T - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4

Output Bias Voltage	3.7 to 8.7 VDC	3.7 to 8.7 VDC

W - Water Resistant Cable [5]
Supplied Accessory: Model 060A12 Clamp nut, 9/16-18-2A thd, 9/16" hex (1)

WM - Water Resistant Cable [5]
Supplied Accessory: Model 060A14 Metric clamp nut, M14 x 1.25-6g thd, 14 mm hex, stainless steel (1)

NOTES:

[1]Typical.
[2]Zero-based, least-squares, straight line method.
[3]See PCB Declaration of Conformance PS023 for details.
[4]Used with optional mounting adaptor.
[5]Clamp nut installed prior to cable attachment

SUPPLIED ACCESSORIES:

Model 060A12 Clamp nut, 9/16-18-2A thd, 9/16" hex (1)
Model 060A14 Metric clamp nut, M14 x 1.25-6g thd, 14 mm hex, stainless steel (1)
Model 065A37 Seal ring 0.497 OD x 0.437 ID x 0.025 thk Brass (3)
Model PCS-1 Calibration of dynamic pressure sensors at 100% full scale, max 15 kpsi range.
Model PCS-17 Frequency response of 106B and 116B series from 20 Hz to 50 kHz.
Model PCS-24 Sensor sensitivity calibration with Pistonphone

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