Model Number 106B50	ICP® PRESSURE SENSOR	Revision: N ECN #: 54898

Performance	ENGLISH	SI	
Measurement Range(for ±2.5V output)	5 psi	34.45 kPa	
Sensitivity(± 15 %)	500 mV/psi	72.5 mV/kPa	
Maximum Pressure(step)	100 psi	690 kPa	
Maximum Pressure(static)	500 psi	3,448 kPa	
Resolution	0.07 mpsi	0.00048 kPa	[1]
Resonant Frequency	≥ 40 kHz	≥ 40 kHz	
Rise Time	≤ 12 µ sec	≤ 12 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/s²)	[1]
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C	
Maximum Flash Temperature	3,000 °F	1,649 °C	
Maximum Vibration	500 g pk	4,903 m/s² pk	
Maximum Shock	1,000 g pk	9,807 m/s² pk	
Electrical			
Output Polarity(Positive Pressure)	Positive	Positive	
Discharge Time Constant(at room temp)	≥ 1 sec	≥ 1 sec	
Excitation Voltage	11 to 30 VDC	11 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 Element	Quartz	Quartz	
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	1.13 oz	32 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.

E - Emralon coating Coating Electrical Isolation	 Emralon 10^8 Ohm	 Emralon 10^8 Ohm	[4]
J - Ground Isolated Electrical Isolation(50 V)	10^8 Ohm	10^8 Ohm	[5]

W - Water Resistant Cable
Supplied Accessory: Model 060A11 Acetal clamp nut 3/4-16-2A thd 3/4" hex (1) [5]

WM - Water Resistant Cable
Supplied Accessory: Model 060A13 Metric Acetal clamp nut M20 x 1.5-6g thd 20 mm hex (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 060A11 Acetal clamp nut 3/4-16-2A thd 3/4" hex (1)
Model 060A13 Metric Acetal clamp nut M20 x 1.5-6g thd 20 mm hex (1)
Model 065A36 Seal, .687" OD x .625" ID x .060", Derlin (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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