

Model Number
106B50

ICP® PRESSURE SENSOR

Revision: M
ECN #: 29520

	ENGLISH	SI
Performance		
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	3448 kPa
Resolution	0.07 mpsi	0.00048 kPa
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
Environmental		
Acceleration Sensitivity	≤ 0.002 psi/g	≤ 0.0014 kPa/(m/s ²)
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C
Maximum Flash Temperature	3000 °F	1649 °C
Maximum Vibration	500 g pk	4903 m/s ² pk
Maximum Shock	1000 g pk	9807 m/s ² 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

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 Emralon Emralon
Electrical Isolation 10⁸ ohm 10⁸ ohm

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

WM - Water Resistant Cable [3]
Supplied Accessory : Model 060A13 Metric Delrin clamp nut M20 x 1.5-6g thd 20 mm hex (1)

NOTES:
[1] Zero-based, least-squares, straight line method.
[2] See PCB Declaration of Conformance PS023 for details.
[3] Clamp nut installed prior to cable attachment

SUPPLIED ACCESSORIES:
Model 060A11 Delrin clamp nut 3/4-16-2A thd 3/4" hex
Model 060A13 Metric Delrin clamp nut M20 x 1.5-6g thd 20 mm hex (1)
Model 065A36 Seal, .687" OD x .625" ID x .060", Derlin (3)

Entered: <i>BLS</i>	Engineer: <i>NJL</i>	Sales: <i>RWH</i>	Approved: <i>RF</i>	Spec Number:
Date: <i>10/17/08</i>	Date: <i>10/2/08</i>	Date: <i>10/3/08</i>	Date: <i>10/2/08</i>	106-2500-80



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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