Model Number	ICP® PRESSURE SENSOR	Revision: C
138A11		ECN #: 29109

Performance	ENGLISH	SI	
Measurement Range(for ±5V output)	10 kpsi	68,950 kPa	
Useful Overrange(for ± 10V output)	20 kpsi	137,900 kPa	[1]
Sensitivity(± 15 %)	0.5 mV/psi	0.073 mV/kPa	
Maximum Pressure	50 kpsi	344,750 kPa	
Resolution	200 mpsi	0.14 kPa	[2]
Resonant Frequency	≥ 1000 kHz	≥ 1000 kHz	
Rise Time(Reflected)	≤ 1.5 µ sec	≤ 1.5 µ sec	
Low Frequency Response(-5 %)	2.5 Hz	2.5 Hz	
Non-Linearity	≤ 2.0 % FS	≤ 2.0 % FS	[3]
Environmental			
Temperature Range(Operating)	0 to +100 °F	-17.8 to +37.8 °C	
Maximum Shock	20,000 g pk	196,140 m/s² pk	
Electrical			
Output Polarity(Positive Pressure)	Positive	Positive	
Discharge Time Constant(at room temp)	≥ 0.2 sec	≥ 0.2 sec	
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<100 ohm	<100 ohm	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	
Physical			
Sensing Element	Tourmaline	Tourmaline	
Housing Material	Stainless Steel	Stainless Steel	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	0.61 oz	17.0 gm	

CE [4]

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.

N - Negative Output Polarity

W - Water Resistant Cable

NOTES:

[1] For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias.
[2] Typical.
[3] Zero-based, least-squares, straight line method.
[4] See PCB Declaration of Conformance PS023 for details.

Entered: BLS	Engineer: RF	Sales: RMM	Approved: BM	Spec Number:
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