Model Number	ICP® PRESSURE SENSOR	Revision: NR
105C		ECN #: 48065

Performance	**ENGLISH**	**SI**	
Measurement Range(for ±5V output)	100 psi	690 kPa	
Sensitivity(-40 to +20 %)	50 mV/psi	7.3 mV/kPa	
Maximum Pressure(Total)	7.5 kpsi	51,713 kPa	[1]
Resolution	5 mpsi	0.035 kPa	
Resonant Frequency	≥ 250 kHz	≥ 250 kHz	
Rise Time(Reflected)	≤ 2.0 µ sec	≤ 2.0 µ sec	
Low Frequency Response(-5 %)	0.5 Hz	0.5 Hz	
Non-Linearity	2.0 % FS	2.0 % FS	[2]
Environmental			
Acceleration Sensitivity	≤ 0.04 psi/g	≤ 0.028 kPa/(m/s²)	
Temperature Range(Operating)	-100 to +250 °F	-73 to +121 °C	
Temperature Coefficient of Sensitivity	≤ 0.09 %/°F	≤ 0.162 %/°C	
Maximum Flash Temperature	3000 °F	1649 °C	
Maximum Shock	5000 g pk	49,035 m/s² pk	
Electrical			
Output Polarity(Positive Pressure)	Positive	Positive	
Discharge Time Constant(at room temp)	>1.0 sec	>1.0 sec	
Excitation Voltage	22 to 30 VDC	22 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 Geometry	Compression	Compression	
Sensing Element	Quartz	Quartz	
Housing Material	Stainless Steel	Stainless Steel	
Diaphragm	17-4 Stainless Steel	17-4 Stainless Steel	
Sealing	Epoxy	Epoxy	
Electrical Connector	Integral Twisted Pair	Integral Twisted Pair	
Electrical Connections(Red)	Signal / Power	Signal / Power	
Electrical Connections(White)	Ground	Ground	
Weight(with cable)	.15 oz	0.43 gm	

CE[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.

NOTES:

[1] Due to high sensitivity, the static pressure should be applied and removed very slowly. Rate should prevent more than 10 Volt change in output until Output Bias Voltage returns to normal (approximately 15 times discharge time constant).
[2] Zero-based, least-squares, straight line method.
[3] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 065A10 Seal ring 0.138" OD x 0.101" ID x 0.022" thk brass (3)

Entered: LK	Engineer: NJL	Sales: RWM	Approved: RPF	Spec Number:
Date: 3/28/2018	Date: 3/28/2018	Date: 3/28/2018	Date: 3/28/2018	**67007**

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