Model Number **101A02**	**PRESSURE SENSOR, ICP®**	Revision F ECN #: 25129

Performance	**ENGLISH**	**SI**	
Measurement Range (for ±5V output)	5 kpsi	34500 kPa	
Useful Overrange (for ± 10V output)	10 kpsi	69000 kPa	[1]
Sensitivity (±0.1 mV/psi)	1.0 mV/psi	0.145 mV/kPa	
Maximum Pressure (static)	15 kpsi	103000 kPa	
Resolution	100 mpsi	0.690 kPa	
Resonant Frequency	≥400 kHz	≥400 kHz	
Rise Time	≤1.5 µ sec	≤1.5 µ sec	
Low Frequency Response (-5 %)	0.001 Hz	0.001 Hz	
Non-Linearity	≤2.0 % FS	≤2.0 % FS	[2]
Environmental			
Acceleration Sensitivity	≤0.002 psi/g	≤0.0014 kPa/(m/s²)	
Temperature Range (Operating)	-100 to +275 °F	-73 to +135 °C	
Temperature Coefficient of Sensitivity	≤0.03 %/°F	≤0.054 %/°C	
Maximum Flash Temperature	3000 °F	5400 °C	
Maximum Shock	20000 g pk	196000 m/s² pk	
Electrical			
Output Polarity (Positive Pressure)	Positive	Positive	
Discharge Time Constant (at room temp)	≥500 sec	≥500 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	
Electrical Isolation	10^8 Ohm	10^8 Ohm	
Physical			
Sensing Geometry	Compression	Compression	
Sensing Element	Quartz	Quartz	
Housing Material	Stainless Steel	Stainless Steel	
Diaphragm	Invar	Invar	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	0.44 oz	12.5 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 standard model except where noted below. More than one option maybe used.)

H - Hermetic Seal		
Sealing	Welded Hermetic	Welded Hermetic
M - Metric Mount		
Supplied Accessory: Model 065A40 Seal ring, 0.435" OD x 0.397" ID x 0.030" thk, brass (for Models 061A07 and 061A10 thread adaptors) replaces Model 065A03		
N - Negative Output Polarity		
S - Stainless Steel Diaphragm		
Diaphragm	316L Stainless Steel	316L Stainless Steel
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] Zero-based, least-squares, straight line method.
[3] See PCB Declaration of Conformance PS023 for details.

Supplied Accessories

065A03 Seal ring 0.435" OD x 0.377" ID x 0.030" thk brass (3)

Entered: BLS	Engineer: RPF	Sales: DPC	Approved: MEM	Spec Number:
Date: 10/09/2006	Date: 10/12/2006	Date: 10/12/2006	Date: 10/12/2006	**101-1020-80**

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