

Model Number 116B03		CHARGE OUTPUT PRESSURE SENSOR			Revision: F ECN #: 45245	
Performance		ENGLISH		SI		
Sensitivity(± 15 %)		6 pC/psi		0.870 pC/kPa		
Measurement Range		100 psi		690 kPa		
Maximum Pressure(static)		3000 psi		20,685 kPa		
Resolution		.0003 psi		.0021 kPa		
Resonant Frequency		≥ 55 kHz		≥ 55 kHz		
Rise Time(Reflected)		≤ 9 μ sec		≤ 9 μ sec		
Non-Linearity		≤ 1 % FS		≤ 1 % FS		
Environmental						
Acceleration Sensitivity		≤ 0.029 psi/g		≤ 0.0204 kPa/(m/s²)		
Temperature Range(Operating)		-400 to 750 °F		-240 to 399 °C		
Temperature Coefficient of Sensitivity		≤ 0.04 %/°F		≤ 0.072 %/°C		
Maximum Flash Temperature		3000 °F		1649 °C		
Maximum Shock		2000 g pk		19,620 m/s² pk		
Electrical						
Capacitance		30 pF		30 pF		
Insulation Resistance(at 600°F[315°C])		>10 ⁹ Ohm		>10 ⁹ Ohm		
Insulation Resistance(at 750°F[399°C])		>10 ⁸ Ohm		>10 ⁸ Ohm		
Insulation Resistance(at room temp)		>10 ¹¹ Ohm		>10 ¹¹ Ohm		
Physical						
Sensing Element		Quartz		Quartz		
Housing Material		316L Stainless Steel		316L 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		.717 oz		20.3 gm		
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.						
P - Positive Output Polarity						
NOTES:						
[1]Typical.						
[2]When used with blocking capacitor and hardline cable.						
[3]Resolution dependent on range setting and cable length used in charge system.						
[4]Zero-based, least-squares, straight line method.						
SUPPLIED ACCESSORIES:						
Model 060A12 Clamp nut, 9/16-18-2A thd, 9/16" hex (1)						
Model 060A14 Metric clamp nut, M14 x 1.25-6g thd, 14 mm hex, stainless steel (1)						
Model 065A37 Seal ring 0.497 OD x 0.437 ID x 0.025 thk Brass (3)						
Model PCS-17 Frequency response of 106B series from 20Hz to 50KHz						
Model PCS-3 Calibration of high-temperature Models 112A04 and 112A05, Series 112B and Series 116B						
Entered: LK		Engineer: RB		Sales: MFG		
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