


Model Number 209C02		ICP® FORCE SENSOR			Revision: J ECN #: 45224	
Performance		ENGLISH	SI		OPTIONAL VERSIONS	
Sensitivity(± 15 %)		2200 mV/lb	494,604 mV/kN		Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
Measurement Range(Compression)		2.2 lb	0.00979 kN		M - Metric Mount	
Maximum Static Force(Compression)		11 lb	0.0489 kN		Supplied Accessory : Model M081A05 Mounting Stud 10-32 to M6 x 0.75 x 0.27" long BeCu (H900), no shoulder (1)	
Broadband Resolution(1 to 10,000 Hz)		0.00002 lb-rms	0.00009 N-rms	[1]	N - Negative Output Polarity	
Low Frequency Response(-5 %)		0.05 Hz	0.05 Hz	[2]	Output Polarity(Compression)	
Upper Frequency Limit		100,000 Hz	100,000 Hz	[3]	Negative Negative	
Environmental					W - Water Resistant Cable	
Temperature Range		-65 to +250 °F	-54 to +121 °C		Electrical Connector Sealed Cable Sealed Cable	
Temperature Coefficient of Sensitivity		≤ 0.05 %/°F	≤ 0.09 %/°C		Electrical Connection Position Side Side	
Electrical					NOTES:	
Discharge Time Constant(at room temp)		≥ 10 sec	≥ 10 sec		[1]Typical.	
Excitation Voltage		18 to 30 VDC	18 to 30 VDC		[2]Calculated from discharge time constant.	
Constant Current Excitation		2 to 20 mA	2 to 20 mA		[3]Estimated using rigid body dynamics calculations.	
Output Impedance		≤ 100 Ohm	≤ 100 Ohm		[4]See PCB Declaration of Conformance PS023 for details.	
Output Bias Voltage		8 to 12 VDC	8 to 12 VDC		SUPPLIED ACCESSORIES:	
Spectral Noise(1 Hz)		0.0000123 lb/√Hz	0.0000548 N/√Hz	[1]	Model 081A05 Mounting stud, 10-32 to 10-32 x 0.27" long, BeCu (H900), no shoulder (1)	
Spectral Noise(10 Hz)		0.0000009 lb/√Hz	0.0000042 N/√Hz	[1]	Model 084A38 Thermal boot (for Series 209) (1)	
Spectral Noise(100 Hz)		0.0000004 lb/√Hz	0.0000017 N/√Hz	[1]	Entered: LK Engineer: MJK Sales: KWW Approved: APB Spec Number:	
Spectral Noise(1000 Hz)		0.0000001 lb/√Hz	0.0000003 N/√Hz	[1]	Date: 3/29/2016 Date: 3/29/2016 Date: 3/29/2016 Date: 3/29/2016 6359	
Output Polarity(Compression)		Positive	Positive		PCB PIEZOTRONICS™	
Physical					3425 Walden Avenue, Depew, NY 14043	
Stiffness		2 lb/μin	0.35 kN/μm	[1]	Phone: 716-684-0001	
Size (Hex x Height)		0.375 in x 0.610 in	9.53 mm x 15.49 mm		Fax: 716-684-0987	
Weight		0.28 oz	8 gm		E-Mail: info@pcb.com	
Housing Material		Stainless Steel	Stainless Steel			
Sealing		Hermetic	Hermetic			
Electrical Connector		10-32 Coaxial Jack	10-32 Coaxial Jack			
Electrical Connection Position		Side	Side			
Mounting Thread		10-32 Female	No Metric Equivalent			
						
<p>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. ICP® is a registered trademark of PCB Group, Inc.</p>						



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