



Model Number 221B02		ICP® FORCE SENSOR		Revision: J ECN #: 45758	
Performance					
Sensitivity(± 15 %)	ENGLISH 50 mV/lb	SI 11,241 mV/kN		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. J - Ground Isolated M - Metric Mount Mounting Thread M6 x 0.75 Female N - Negative Output Polarity Output Polarity(Compression) Negative Negative W - Water Resistant Cable Electrical Connector Sealed Cable Sealed Cable Electrical Connection Position Side Side	
Measurement Range(Compression)	100 lb	0.4448 kN			
Measurement Range(Tension)	100 lb	0.4448 kN			
Maximum Static Force(Compression)	600 lb	2.669 kN			
Maximum Static Force(Tension)	500 lb	2.224 kN			
Broadband Resolution(1 to 10,000 Hz)	0.002 lb-rms	0.008896 N-rms	[1]		
Low Frequency Response(-5 %)	0.006 Hz	0.006 Hz	[2]		
Upper Frequency Limit	15 kHz	15 kHz	[3]		
Non-Linearity	≤ 1.5 % FS	≤ 1.5 % FS	[4]		
Environmental					
Temperature Range	-65 to +250 °F	-54 to +121 °C			
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C			
Electrical					
Discharge Time Constant(at room temp)	≥ 120 sec	≥ 120 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			
Output Polarity(Compression)	Positive	Positive			
Physical					
Stiffness	2 lb/µin	0.35 kN/µm	[1]		
Size (Diameter x Height)	0.65 in x 1.25 in	16.51 mm x 31.75 mm			
Weight	1.1 oz	31 gm			
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	1/4-28 Female	1/4-28 Female			
NOTES:					
[1]Typical.					
[2]Calculated from discharge time constant.					
[3]Estimated using rigid body dynamics calculations.					
[4]Zero-based, least-squares, straight line method.					
[5]See PCB Declaration of Conformance PS023 for details.					
OPTIONAL ACCESSORIES:					
Model 081A06 Mounting stud, 1/4-28 to 1/4-28 x .37 in. long, BeCu, no shoulder (1)					
Entered: LK	Engineer: APB	Sales: KWW	Approved: APB	Spec Number:	
Date: 7/28/2016	Date: 7/28/2016	Date: 7/28/2016	Date: 7/28/2016	1242	
					
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.			Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com		



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