



Model Number 219A05		CHARGE OUTPUT FORCE SENSOR			Revision: B ECN #: 47145		
Performance		ENGLISH	SI	OPTIONAL VERSIONS			
Sensitivity(± 15 %)		20 pC/lb	4497 pC/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)		560 lb	2.491 kN				
Maximum Static Force(Compression)		675 lb	3.003 kN				
Upper Frequency Limit		140 kHz	140 kHz				
Non-Linearity		≤ 1 % FS	≤ 1 % FS	[2][3]	[4]		
Environmental							
Temperature Range		-300 to +400 °F	-184 to +204 °C				
Temperature Coefficient of Sensitivity		≤ 0.05 %/°F	≤ 0.09 %/°C				
Electrical							
Capacitance		5 pF	5 pF	[1]	NOTES:		
Insulation Resistance(400°F)		≥ 10 ¹²	≥ 10 ¹²	[1] Typical.			
Output Polarity(Compression)		Negative	Negative	[2] Estimated using rigid body dynamics calculations.			
Physical				[3] Low frequency response and system noise dependent on choice of external signal conditioning electronics.			
Stiffness		3 lb/μin	1.05 kN/μm	[1]	[4] Zero-based, least-squares, straight line method.		
Size (Diameter x Height)		0.2360 in x 0.2362 in	6.000 mm x 5.995 mm	[5] See PCB Declaration of Conformance PS158 for details.			
Weight		0.042 oz	1.2 gm				
Housing Material		Stainless Steel	Stainless Steel				
Sealing		Hermetic	Hermetic				
Electrical Connector		5-44 Coaxial	5-44 Coaxial				
Electrical Connection Position		Side	Side				
							
[5]							
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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