

Model Number 219A05	CHARGE OUTPUT FORCE SENSOR	Revision: B ECN #: 47145
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Sensitivity(± 15 %)	20 pC/lb	4497 pC/kN	
Measurement Range(Compression)	560 lb	2.491 kN	
Maximum Static Force(Compression)	675 lb	3.003 kN	
Upper Frequency Limit	140 kHz	140 kHz	[2][3]
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[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]
Insulation Resistance(400°F)	≥ 10 ¹²	≥ 10 ¹²	
Output Polarity(Compression)	Negative	Negative	
Physical			
Stiffness	3 lb/μin	1.05 kN/μm	[1]
Size (Diameter x Height)	0.2360 in x 0.2362 in	6.000 mm x 5.995 mm	
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	

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.

NOTES:

[1] Typical.
 [2] Estimated using rigid body dynamics calculations.
 [3] Low frequency response and system noise dependent on choice of external signal conditioning electronics.
 [4] Zero-based, least-squares, straight line method.
 [5] See PCB Declaration of Conformance PS158 for details.

Entered: LK	Engineer: MP	Sales: WDC	Approved: RPF	Spec Number:
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All specifications are at room temperature unless otherwise specified.
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