

Model Number Doc No PERFORMANCE SPECIFICATION PS1210C6 1210C6 Force Sensors, Charge Mode REV C, ECN 11776, 02/27/15



- RING STYLE FORCE SENSOR
- HERMETICALLY SEALED
- EXCELLENT LINEARITY

N XXX	- Com
PHYSICAL	G

Weight, Max	
Sizo	

Outer Dia Inner Dia Thickness Connector [1] Type Material Housing Material Isolation Sensing Element Material Mode

ENGLISH		
5.90	oz	
2.05	Inches	
1.03	Inches	
0.59	Inches	
10-32		
Stainless steel		
Stainless steel		
Case grounded		
Quartz		

Compression

168.00	grams
52.07	mm
26.16	mm
14.99	mm
10-32	
Stainless steel	
Stainless steel	
Case grounded	
Quartz	
Compression	

SI

PERFORMANCE

ENVIRONMENTAL

Insulation Resistance

Sensitivity, ± 15 % Range, Full Scale Maximum Force Maximum Unloaded Vibration Linearity [2] Resonant Frequency., No Load Stiffness Output Polarity for Compression Force Preload Capacitance, Nominal

Coefficient Of Thermal Sensitivity Operating Temperature Environmental Seal

-18	pC/Lb
80,000	Lbs.Force
90,000	Lbs.Force
2,000	g's,Peak
± 1	% Full Scal
75	kHz
160	Lb/μin
Negative	
2000	Lbs.Force
170	pF

orce	355.86
orce	400.34
Peak	19,600
Scale	± 1
łz	75
μin	27.72
	Negative
orce	8.90
F	170
	·

0.03	%/°F
-60 to +400	°F
Hermetic	
1	TΩ

0.03	%/°C
-51 to +204	°C
Hermetic	
1	TΩ

This family also includes:

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Model	Sensitivity (pC/Lb)	Range (Lbs.Force)	Max.Force (Lbs.Force)	Oper. Temp(°F)
1210C1	-18	5,000	10,000	-60 to +400
1210C2	-18	10,000	15,000	-60 to +400
1210C3	-18	20,000	25,000	-60 to +400
1210C4	-18	40,000	50,000	-60 to +400
1210C5	-18	60,000	90,000	-60 to +400
1210C7	-18	100,000	110,000	-60 to +400

Please, refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Use supplied washer for top mounting surface (Model # 6908)

pC/N

kΝ

kN

m/s^2 Peak

% Full Scale

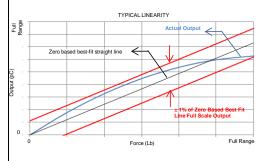
kHz

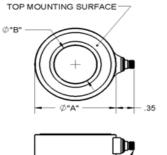
kN/μm

kΝ

pF

- [1] Radially mounted with 10-32 receptacle micro coaxial connector
- [2] Percent of full scale or any lesser range, Zero based best-fit sraight line method.





C" Thickness Inches
0.31 [7.87]
0.39 [9.90]
0.43 [10.92]

10-32 RECEPTACLE

Model	"A" Outer Dia Inches	"B" Inner Dia Inches	"C" Thickness Inches
1210C1	0.65 [16.51]	0.26 [6.60]	0.31 [7.87]
1210C2	0.87 [22.09]	0.41 [10.41]	0.39 [9.90]
1210C3	1.10 [27.94]	0.52 [13.20]	0.43 [10.92]
1210C4	1.34 [34.06]	0.66 [16.76]	0.47 [11.93]
1210C5	1.58 [40.13]	0.83 [21.08]	0.51 [12.95]
1210C7	2.95 [74.93]	1.61 [40.89]	0.67 [17.01]

Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-1210C for more information.

