

Model Number Doc No PERFORMANCE SPECIFICATION PS1210C1 1210C1 Force Sensors, Charge Mode REV C, ECN 11776, 02/27/15



- RING STYLE FORCE SENSOR
- HERMETICALLY SEALED

PRIOCX W XXXXX	Co
PHYSICAL Weight, Max	

Weight,	Max

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

• EXCELLENT LINEARITY

ENGLISH		
0.42	oz	
0.65	Inches	
0.26	Inches	
0.31	Inches	
10-32		
Stainless Steel		
Stainless Steel		
Case grounded		
Quatz		
Compression		

12.00	grams
16.51	mm
6.60	mm
7.87	mm
10-32	
Stainless Steel	
Stainless Steel	
Case grounded	
Quatz	
Compression	

SI

PERFORMANCE

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
Capacitance, Nominal

-18	pC/Lb
5,000	Lbs.Force
10,000	Lbs.Force
2,000	g's,Peak
± 1	% Full Scale
75	kHz
160	Lb/μin
Negative	
2000	Lbs.Force
20	pF

-4.45	pC/N
22.24	kN
44.48	kN
19,600	m/s^2 Peak
± 1	% Full Scale
75	kHz
27.72	kN/μm
Negative	
8.90	kN
20	pF
•	

ENVIRONMENTAL

Coefficient Of Thermal Sensitivity Operating Temperature Environmental Seal Insulation Resistance

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

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

This family also includes:

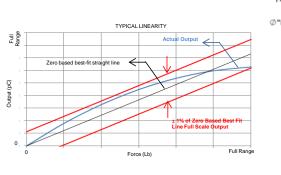
Model	Sensitivity (pC/Lb)	Range (Lbs.Force)	Max.Force (Lbs.Force)	Oper. Temp(°F)
1210C2	-18	10,000	15,000	-60 to +400
1210C3	-18	20,000	25,000	-60 to +400
1210C4	-18	40,000	50,000	-60 to +400
1210C5	-18	60,000	70,000	-60 to +400
1210C6	-18	80,000	90,000	-60 to +400
1210C7	-18	100,000	110,000	-60 to +400

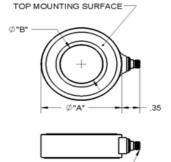
Please, refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Use supplied washer for top mounting surface (Model # 6904)

- [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.





10-32 RECEPTACLE

Model	"A" Outer Dia Inches	"B" Inner Dia Inches	"C" Thickness Inches
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]
1210C6	2.05 [52.07]	1.03 [26.16]	0.59 [14.98]
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.

