

Model Number Doc No PERFORMANCE SPECIFICATION PS1210C4 1210C4 Force Sensors, Charge Mode REV C, ECN 11776, 02/27/15

grams

mm

mm

mm



- RING STYLE FORCE SENSOR
- HERMETICALLY SEALED
- EXCELLENT LINEARITY

1210CX N XXXX	
PHYSICAL Weight, Max	

Weight,	Max

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

ENGLISH

ΟZ

Inches

Inches

Inches

2.11	
1.34	
0.66	
0.47	
10-32	
Stainless stee	
Stainless stee	
Case grounde	d
Quartz	
Compression	1

SI	

60.00 34.04 16.76 11.94 10-32 Stainless steel
16.76 11.94 10-32
11.94 10-32
10-32
Stainless steel
Stainless steel
Case grounded
Quartz
Compression

PERFORMANCE Sancitivity + 15 %

Sensitivity, ± 13 %
Range, Full Scale
Maximum Force
Maximum Unloaded Vibration
Linearity [2]
Resonant Frequency., No Load
Stiffness
Output Polarity for Compression Force
Preload
Capacitance, Nominal

ENVIRONMENTAL

Coefficient Of Thermal Sensitivity Operating Temperature Environmental Seal Insulation Resistance

-18	pC/Lb
40,000	Lbs.Force
50,000	Lbs.Force
2,000	g's,Peak
± 1	% Full Scale
75	kHz
160	Lb/μin
Negative	
2000	Lbs.Force
75	pF

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

-4.45	pC/N
177.93	kN
222.41	kN
19,600	m/s^2 Peak
± 1	% Full Scale
75	kHz
27.72	kN/μm
Negative	
8.90	kN
75	pF
	='

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

This family also includes: Sensitivity (pC/Lb) Range (Lbs.Force) Max.Force (Lbs.Force) Oper. Temp(°F) 1210C1 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 1210C5 -18 60.000 70.000 -60 to +400 1210C6 -18 80.000 90.000 -60 to +400

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

100,000

Supplied Accessories:

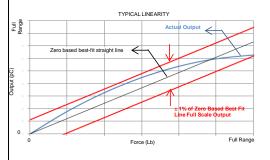
1) Accredited calibration certificate (ISO 17025)

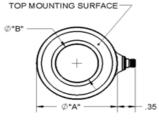
-18

2) Use supplied washer for top mounting surface (Model # 6907)

1210C7

- [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.





-60 to +400

110,000



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]
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.

