

Model Number Doc No PERFORMANCE SPECIFICATION PS1210C3 1210C3 Force Sensors, Charge Mode REV C, ECN 11776, 02/27/15



- RING STYLE FORCE SENSOR
- HERMETICALLY SEALED

ENGLISH

• EXCELLENT LINEARITY

W XXXX	Co
PHYSICAL	
Weight, Max	
Size	Outer Dia Inner Dia

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

Sensitivity, ± 15 % Range, Full Scale Maximum Force

Capacitance, Nominal ENVIRONMENTAL

Insulation Resistance

Linearity [2]

Stiffness

Preload

Maximum Unloaded Vibration

Resonant Frequency., No Load

Coefficient Of Thermal Sensitivity Operating Temperature Environmental Seal

Output Polarity for Compression Force

Dia	
Dia	
ness	
ial	Stai
ial	Stai
on	Case
ial	
	Cor

	-
1.37	oz
1.10	Inches
0.52	Inches
0.43	Inches
10-32	1
Stainless steel	1
Stainless steel	1
Case grounded	1
Quartz	1
Compression	1
<u> </u>	=

-18	pC/Lb
20,000	Lbs.Force
25,000	Lbs.Force
2,000	g's,Peak
± 1	% Full Scale
75	kHz
160	Lb/μin
Negative	
2000	Lbs.Force
45	pF
	=

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

39.00	grams
27.94	mm
13.21	mm
10.92	mm
10-32	
Stainless steel	
Stainless steel	
Case grounded	
Quartz	
Compression	
<u> </u>	

SI

-4.45	pC/N
88.96	kN
111.21	kN
19,600	m/s^2 Peak
± 1	% Full Scale
75	kHz
27.72	kN/μm
Negative	1
8.90	kN
45	pF
	_ '

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

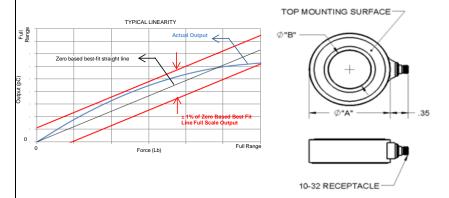
This family also includes:				
Model	Sensitivity (pC/Lb)	Range (Lbs.Force)	Max.Force (Lbs.Force)	Oper. Temp(°F)
1210C1	-18	5,000	10,000	-60 to +400
1210C2	-18	10,000	15,000	-60 to +400
1210C4	-18	40,000	50,000	-60 to +400
1210C5	-18	60,000	70,000	-60 to +400
1210C6	-18	80,000	90,000	-60 to +400
1210C7	-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 # 6906)

- [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.



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]
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.

