

172-0081, REV C

	PERFORMANCE SPECIFICATION Force Sensors, Charge Mode								Doc No PS1210C5	
									REV C, ECN 11776, 02/27/1	
	•					This family	also includes:			
		• RING STYLE FORCE	F SENSOR			Model	Sensitivity (pC/Lb)	Range (Lbs.Force)	Max.Force (Lbs.Force)	Oper. Temp(°F)
		HERMETICALLY SE				1210C1	-18	5,000	10,000	-60 to +400
		EXCELLENT LINEAU				1210C2	-18	10,000	15,000	-60 to +400
121002						1210C3	-18	20,000	25,000	-60 to +400
tor						1210C4	-18	40,000	50,000	-60 to +400
S. L	•	ENGLISH		SI		1210C6	-18	80,000	90,000	-60 to +400
IYSICAL		EntoLion	L	01		1210C7	-18	100,000	110,000	-60 to +400
eight, Max		3.00	oz	85.00	grams			,	,	
	Outer Dia		nches	40.13	mm	Please, refer	to the performance specifi	cations of the products in	this family for detailed des	cription
	Inner Dia		nches	21.08	mm				-	
	Thickness		nches	12.95	mm	Supplied Ac	cessories: d calibration certificate (ISC	(=00=)		
Connector [1]	Type Material	10-32 Stainless steel		10-32 Stainless steel	_					
ousing	Material	Stainless steel	_	Stainless steel		Notes:	ied washer for top mounting	y suitace (Nouel # 0901)		
•	Isolation	Case grounded		Case grounded	-		nounted with 10-32 recepta	cle micro coaxial connect	or	
	Material	Quartz		Quartz	_		f full scale or any lesser rar			
	Mode	Compression		Compression				-	-	
					_				TOP MOUNTING S	
		40		4.45	- 0/N	0	TYPICAL LINEA	RITY	-	/
nsitivity, ± 15 % nge, Full Scale			oC/Lb s.Force	-4.45 266.89	pC/N kN	Full		Actual Output	Ø"B"	
ximum Force			s.Force	311.38	kN					
ximum Unloaded Vibration			s,Peak	19,600	m/s^2 Peak	Zero	based best-fit straight line			1111
earity [2]		± 1 % F	ull Scale	±1	% Full Scale)))}]
sonant Frequency., No Load			kHz	75	kHz	nt (bC				2/1K
ffness			_b/μin	27.72	kN/μm	Outpr				2/
utput Polarity for Compression For	orce	Negative		Negative		· ·				35
eload apacitance,Nominal			s.Force pF	<u>8.90</u> 90	kN pF			± 1% of Zero Based Best Fit Line Full Scale Output	- VA	
pacitance, Norminal		30	pi	30	pi					
VIRONMENTAL						0	Force (Lb)	Full Rang	e [
befficient Of Thermal Sensitivity		0.03	%/°F	0.03	%/°C		1 0100 (20)			↓₽ 7
perating Temperature		-60 to +400	°F	-51 to +204	°C					/
vironmental Seal		Hermetic		Hermetic					10-32 RECEPT	
ulation Resistance		1	ТΩ	1	ΤΩ				10-32 RECEPT	ACLE
						Model	"A" Outer Dia Inches	"B" Inner Dia Inches	"C" Thickness Inches	1
						1210C1	0.65 [16.51]	0.26 [6.60]		1
						1210C1 1210C2	0.87 [22.09]	0.26 [0.60]	0.31 [7.87] 0.39 [9.90]	1
						1210C2 1210C3	1.10 [27.94]	0.41 [10.41]		4
						1210C3 1210C4	1.10 [27.94]	0.66 [16.76]	0.43 [10.92]	4
						1210C4				4
						1210C6 1210C7	2.05 [52.07] 2.95 [74.93]	1.03 [26.16]	0.59 [14.98]	4
						121007	2.95 [74.93]	1.61 [40.89]	0.67 [17.01]	