

172-0081, REV C

	PERFORMANCE SPECIFICATION Force Sensors, Charge Mode								Doc No PS1210C4	
									REV C, ECN 11776, 02/27/1	
			•			This family	also includes:			
		• RING STYLE FORC	E SENSOR			Model	Sensitivity (pC/Lb)	Range (Lbs.Force)	Max.Force (Lbs.Force)	Oper. Temp(°F)
		HERMETICALLY SI				1210C1	-18	5,000	10,000	-60 to +400
	h	EXCELLENT LINEA				1210C2	-18	10,000	15,000	-60 to +400
1210CX		-				1210C3	-18	20,000	25,000	-60 to +400
toxx (1210C5	-18	60,000	70,000	-60 to +400
~	-	ENGLISH		SI		1210C6	-18	80,000	90,000	-60 to +400
IYSICAL						1210C7	-18	100,000	110,000	-60 to +400
eight, Max		2.11	oz	60.00	grams			,	+ · · · ·	4
ze (Outer Dia		Inches	34.04	mm	Please, refer	to the performance specifi	cations of the products in	this family for detailed desc	cription
	Inner Dia		Inches	16.76	mm					
	Thickness	0.47	Inches	11.94 10-32	mm	Supplied Ac		47005)		
	Type Material	Stainless steel		Stainless steel	-	 Accredited calibration certificate (ISO 17025) Use supplied washer for top mounting surface (Model # 6907) 				
lousing	Material	Stainless steel		Stainless steel	-	Notes:				
•	Isolation	Case grounded		Case grounded	_		nounted with 10-32 recepta	cle micro coaxial connect	or	
•	Material	Quartz		Quartz		[2] Percent o	f full scale or any lesser rai	nge,Zero based best-fit sr	aight line method.	
1	Mode	Compression		Compression						
RFORMANCE							7,0004111151		TOP MOUNTING S	
ensitivity, ± 15 %		-18	pC/Lb	-4.45	pC/N	= 8	TYPICAL LINEA		1	
ange, Full Scale			bs.Force	177.93	kN	Range		Actual Output	Ø"B"	\sim
iximum Force			bs.Force	222.41	kN	70	o based best-fit straight line			<i>≥</i> .∕/
aximum Unloaded Vibration			j's,Peak	19,600	m/s^2 Peak	20				
nearity [2] esonant Frequency., No Load			Full Scale	± 1	% Full Scale	Q				$J J J \mu$
iffness		75 160	kHz Lb/μin	75 27.72	kHz kN/μm	but (t				<i>\$\]</i>
unness utput Polarity for Compression For	rce	Negative	L0/μΠ	Negative	κιγμπ	Ont				///
reload	100		bs.Force	8.90	kN			± 1% of Zero Based Best Fit Line Full Scale Output	Ø"A"	.35
apacitance, Nominal		75	pF	75	pF			Line Full Scale Output	-	
NVIRONMENTAL						0			·	<u> </u>
oefficient Of Thermal Sensitivity		0.03	%/°F	0.03	%/°C	0	Force (Lb)	Full Rang	e	D
perating Temperature		-60 to +400	°F	-51 to +204	°C				L	/
nvironmental Seal		Hermetic	· –	Hermetic	- C					/
sulation Resistance		1	ТΩ	1	ΤΩ	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]	ļ
						1210C2	0.87 [22.09]	0.41 [10.41]	0.39 [9.90]	ļ
						1210C3	1.10 [27.94]	0.52 [13.20]	0.43 [10.92]	ļ
						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] 0.67 [17.01]	