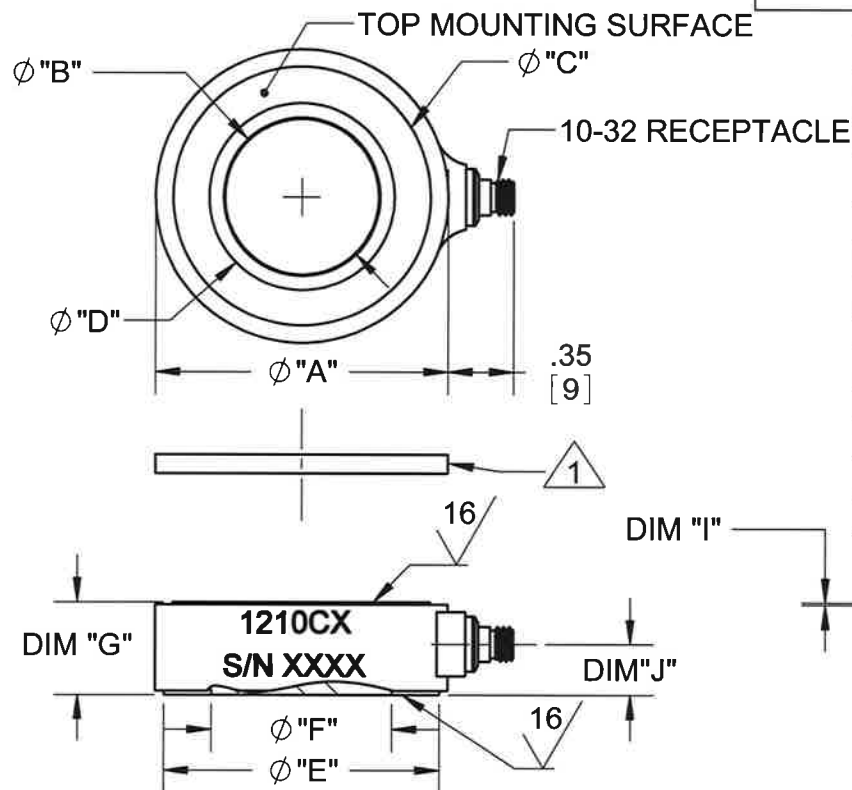


PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
F	13657	ADDED: SURFACE FINISH ON MOUNTING SURFACES	AM 8/14/2017	LW	AS



MODEL	1210C1	1210C2	1210C3	1210C4	1210C5	1210C6	1210C7
ϕ A	.65[16.5]	.87[22.1]	1.10[27.9]	1.34[34]	1.58[40.1]	2.05[52.1]	2.95[74.9]
ϕ B	.26[6.6]	.41[10.4]	.52[13.2]	.66[16.8]	.83[21.1]	1.03[26.2]	1.61[40.9]
ϕ C	.56[14.2]	.75[19.0]	.97[24.6]	1.18[29.9]	1.39[35.3]	1.86[47.3]	2.73[69.3]
ϕ D	.35[8.89]	.51[13.1]	.64[16.4]	.82[20.8]	1.0[25.4]	1.22[30.9]	1.85[46.99]
ϕ E	.60[15.1]	.80[20.3]	1.02[25.9]	1.26[32.0]	1.49[37.8]	1.97[50.0]	2.84[72.1]
ϕ F	.32[8.0]	.47[11.9]	.58[14.7]	.74[18.7]	.92[23.3]	1.11[28.2]	1.7[43.2]
DIM "G"	.31[7.9]	.39[9.9]	.43[10.9]	.47[11.9]	.51[12.9]	.59[15]	.67[17]
DIM "H"	.010[.25]	.015[.38]	.018[.45]	.018[.45]	.018[.45]	.018[.45]	.018[.45]
DIM "I"	.010[.25]	.020[.50]	.020[.50]	.020[.50]	.020[.50]	.020[.50]	.020[.50]
DIM "J"	.16[4.1]	.20[5.2]	.22[5.7]	.23[6.0]	.27[6.9]	.29[7.3]	.33[8.5]
RANGE	5,000	10,000	20,000	40,000	60,000	80,000	100,000
$\triangle$ 1	6904	6905	6906	6907	6901	6908	6909



2. NOMINAL SENSITIVITY -18 pC/lb ON COMPRESSION.

$\triangle$ 1 USE APPROPRIATE SUPPLIED WASHER ON TOP MOUNTING SURFACE.

NOTES: UNLESS OTHERWISE SPECIFIED

		UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER ASME Y14.5M - 1994. REMOVE BURRS. COUNTERSINK INTERNAL THDS 90° TO MAJOR DIA. CHAM EXT THDS 45° TO MINOR DIA. THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS. THDS PER MIL-S-7742, DIMENSIONS APPLY AFTER FINISHING.
SEE CHART		
USED ON	NEXT ASSY	
APPLICATION		
THIRD ANGLE PROJECTION		
		ALL MACHINED SURFACES. TOTAL RUNOUT WITHIN .005. BREAK SHARP EDGES .005 TO .010. MACHINED FILLET RADII .005 TO .015. WELDING SYMBOLS PER AWS A2.4. ABBREVIATIONS PER MIL-STD-12.

CONTRACT NO.

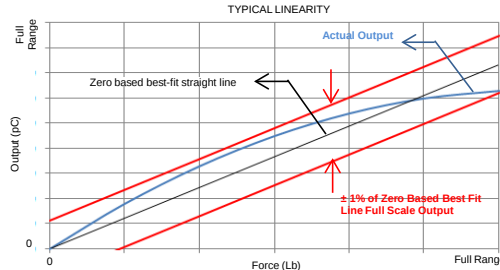
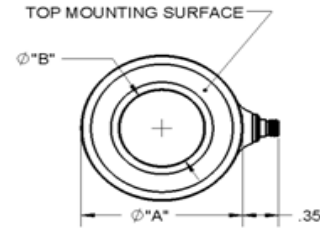
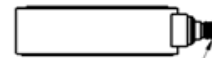


TITLE:

OUTLINE DRAWING
1210C SERIES

APPROVALS		DATE
ORIG	JS	11/25/08
CHK	EP	12/08/08
APP	DV	12/08/08
APP		

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-1210C	F
SCALE: 1:1		SOLIDWORKS	SHEET 1 OF 1

Model Number 1210C1		PERFORMANCE SPECIFICATION				Doc No PS1210C1	
		Force Sensors, Charge Mode			REV C, ECN 11776, 02/27/15		
	• RING STYLE FORCE SENSOR • HERMETICALLY SEALED • EXCELLENT LINEARITY						
	ENGLISH		SI				
	Outer Dia	0.42	oz	12.00	grams		
	Inner Dia	0.65	Inches	16.51	mm		
	Thickness	0.26	Inches	6.60	mm		
	Connector [1]	0.31	Inches	7.87	mm		
	Type	10-32		10-32			
	Material	Stainless Steel		Stainless Steel			
	Housing	Stainless Steel		Stainless Steel			
	Isolation	Case grounded		Case grounded			
Sensing Element	Quartz		Quartz				
Mode	Compression		Compression				
PERFORMANCE							
Sensitivity, ± 15 %	-18	pC/Lb	-4.45	pC/N			
Range, Full Scale	5,000	Lbs.Force	22.24	kN			
Maximum Force	10,000	Lbs.Force	44.48	kN			
Maximum Unloaded Vibration	2,000	g's,Peak	19,600	m/s^2 Peak			
Linearity [2]	± 1	% Full Scale	± 1	% Full Scale			
Resonant Frequency., No Load	75	kHz	75	kHz			
Stiffness	160	Lb/μin	27.72	kN/μm			
Output Polarity for Compression Force	Negative		Negative				
Preload	2000	Lbs.Force	8.90	kN			
Capacitance, Nominal	20	pF	20	pF			
ENVIRONMENTAL							
Coefficient Of Thermal Sensitivity	0.03	%/°F	0.03	%/°C			
Operating Temperature	-60 to +400	°F	-51 to +204	°C			
Environmental Seal	Hermetic		Hermetic				
Insulation Resistance	1	TΩ	1	TΩ			
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)							
Notes:							
[1] Radially mounted with 10-32 receptacle micro coaxial connector							
[2] Percent of full scale or any lesser range, Zero based best-fit straight 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.							



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