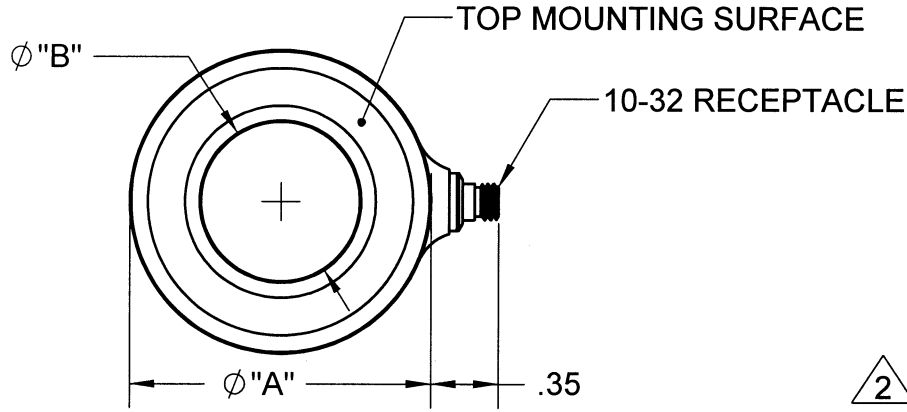


PROPRIETARY AND CONFIDENTIAL

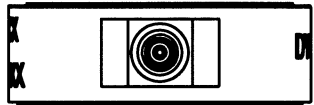
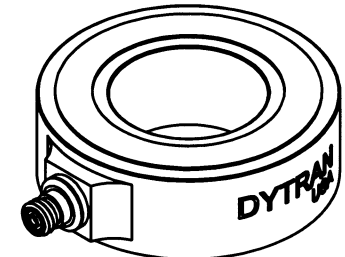
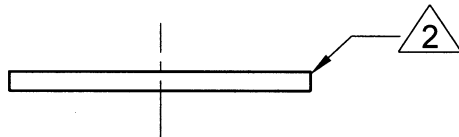
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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	5877	-18pC/LB WAS 18pC/LB	DV 04/06/09	Aus	4/6/09



MODEL	1210C1	1210C2	1210C3	1210C4	1210C5	1210C6	1210C7
Ø A	.65	.87	1.10	1.34	1.58	2.05	2.95
Ø B	.26	.41	.52	.66	.83	1.03	1.61
DIM "C"	.31	.39	.43	.47	.51	.59	.67
RANGE	5,000	10,000	20,000	40,000	60,000	80,000	100,000
WASHER MODEL NO.	6904	6905	6906	6907	6901	6908	6909



- 3. NOMINAL SENSITIVITY -18 pC/lb
- 2 USE SUPPLIED WASHER ON TOP MOUNTING SURFACE.
- 1. INSTRUMENT GENERATES NEGATIVE OUTPUT WHEN COMPRESSED.

NOTES

USED ON	NEXT ASSY	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.	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS TOLERANCES ARE: INCHES METRIC ANGLES .XX ± .03 .X ± 0.8 ± 1° .XXX ± .010 .XX ± 0.25
APPLICATION			
THIRD ANGLE PROJECTION USA		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.	MATERIAL FINISH DO NOT SCALE DRAWING

CONTRACT NO.		
APPROVALS		DATE
ORIG	JS	11/25/08
CHK	EP	12/08/08
APP	DV	12/08/08
APP		

Chatsworth, CA

MASTER ONLY IF IN RED

TITLE: **OUTLINE DRAWING 1210C SERIES**

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



- RING STYLE FORCE SENSOR
- HERMETICALLY SEALED
- EXCELLENT LINEARITY

PHYSICAL

Weight					
Size	Outer Dia	2.84	oz	81.00	grams
	Inner Dia	0.65	Inches	16.51	mm
	Thickness	0.26	Inches	6.60	mm
Connector [1]	Type	0.31	Inches	7.87	mm
	Material	10-32		10-32	
Housing	Material	Stainless Steel		Stainless Steel	
	Isolation	Stainless Steel		Stainless Steel	
Sensing Element	Material	Case grounded		Case grounded	
	Mode	Quartz		Quartz	
		Compression		Compression	

ENGLISH		SI	
Weight	2.84 oz	81.00	grams
Outer Dia	0.65 Inches	16.51	mm
Inner Dia	0.26 Inches	6.60	mm
Thickness	0.31 Inches	7.87	mm
Connector Type	10-32	10-32	
Housing Material	Stainless Steel	Stainless Steel	
Housing Isolation	Stainless Steel	Stainless Steel	
Sensing Element Material	Case grounded	Case grounded	
Sensing Element Mode	Quartz	Quartz	
	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	90	pF	90	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

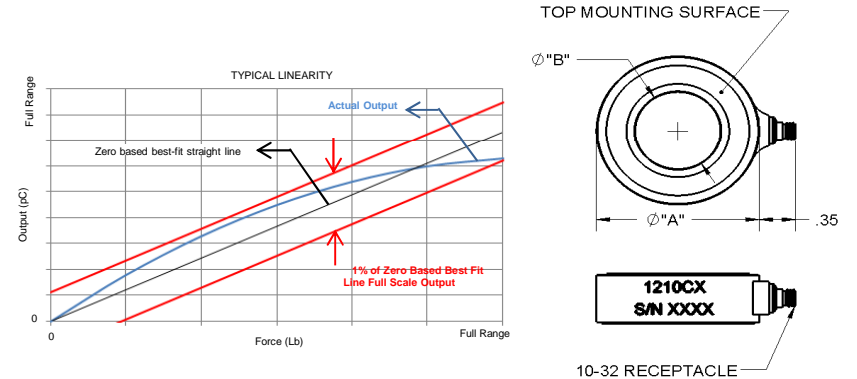
Please, refer to the performance specifications of the products in this family for detailed description

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.



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.

