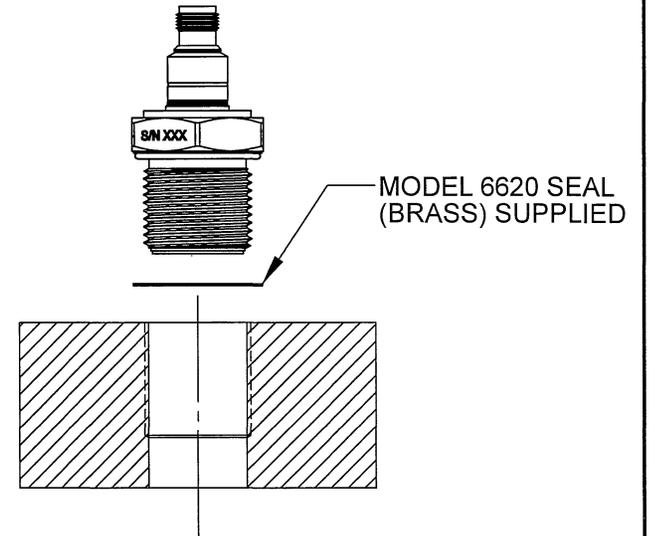
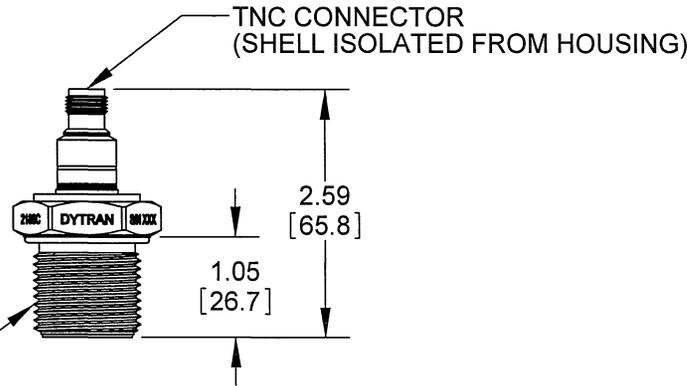
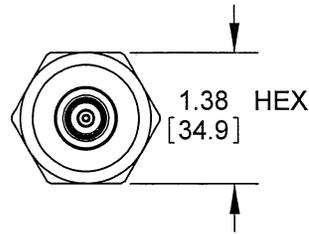


PROPRIETARY AND CONFIDENTIAL		REVISIONS					
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		C	7110	REDRAWN AND REFORMATTED	RLA, 10/15/10	EP	DV



PORT PREPARATION DRILL OR BORE
 1 3/64 (Ø1.046 [Ø26.6]) X 1.30 [33] ∇
 TAP 1 1/8-12 X 1.10 [28] ∇

3. TORQUE IN PLACE WITH 60 LB-INCHES OF TORQUE.
2. PRESSURE ELEMENT IS INTERNALLY CASE ISOLATED, ENCLOSED BY A FARAFDAY SHIELD AND ACCELERATION COMPENSATED.
1. MATERIAL: HOUSING AND DIAPHRAGM-316L STAINLESS STEEL.

NOTES: UNLESS OTHERWISE SPECIFIED.

2180C		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. 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.	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	CONTRACT NO.		MASTER ONLY IF IN RED Chatsworth, CA			
USED ON	NEXT ASSY			APPROVALS				DATE	TITLE: OUTLINE/INSTALLATION DRAWING, MODEL 2180C
APPLICATION		MATERIAL FINISH DO NOT SCALE DRAWING	ORIG	NC	4/10/02	SIZE	CAGE CODE	DWG. NO.	REV
THIRD ANGLE PROJECTION USA			CHK	RA	4/10/02	A	2W033	127-2180C	C
			APP	NC	4/10/02	SCALE: NONE		SOLIDWORKS	SHEET 1 OF 1

MODEL NUMBER
2180C

PERFORMANCE SPECIFICATION

DOC NO.
PS2180C

ACOUSTIC PRESSURE SENSOR

REV C, ECN 15690, 04/01/20



- HIGH INTENSITY ACOUSTIC SENSOR
- ACCELERATION COMPENSATED
- INTERNALLY GROUND ISOLATED
- HERMETICALLY SEALED

	ENGLISH		SI	
Weight, Max	6.1	oz	175	grams
Mounting Provision	1 1/8-12		1 1/8-12	
Connector	TNC	Type	TNC	
Body/Diaphragm	316L STAINLESS STEEL	Material	316L STAINLESS STEEL	
Connector	304L STAINLESS STEEL	Material	304L STAINLESS STEEL	

PHYSICAL

Weight, Max
Mounting Provision
Connector
Body/Diaphragm
Connector

PERFORMANCE

Sensitivity +20% / -30% [1] [2]
Range F.S for 5 volts peak out
Absolute Maximum Pressure [4]
Mounted Resonant Frequency
Linearity [3]

Sensitivity	600	pC/psi	0.087	pC/Pa
Range F.S for 5 volts peak out	[5]		[5]	
Absolute Maximum Pressure [4]	600 (226 db)	psi	4136820	Pa
Mounted Resonant Frequency	> 21	Hz	> 21	Hz
Linearity [3]	+/-1	%F.S	+/-1	%F.S

ENVIRONMENTAL

Maximum Vibration
Maximum Shock
Temperature Range
Thermal Coefficient Of Sensitivity
Environmental Seal

Maximum Vibration	100	g rms	981	m/s ² rms
Maximum Shock	2000	g pk	19620	m/s ² peak
Temperature Range	-60 to +500	°F	-51 to +260	°C
Thermal Coefficient Of Sensitivity	0.06	% / °F	0.11	% / °C
Environmental Seal	Hermetic		Hermetic	

ELECTRICAL

Capacitance
Output Signal Polarity For Increasing Pressure

Capacitance	1200	pF	1200 pF
Output Signal Polarity For Increasing Pressure	Negative		Negative

This family also includes:

Model	Sensitivity (mV/psi)	Range (psi pk)	Resolution (Grms)	Oper. Temp(°F)	TC (Sec)

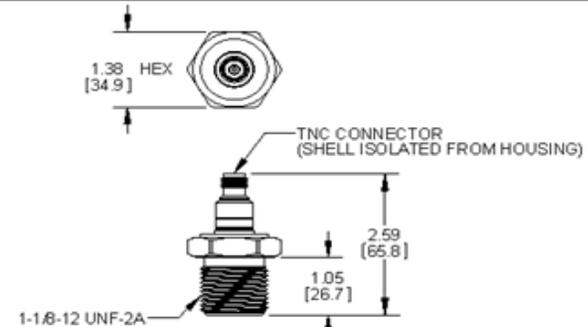
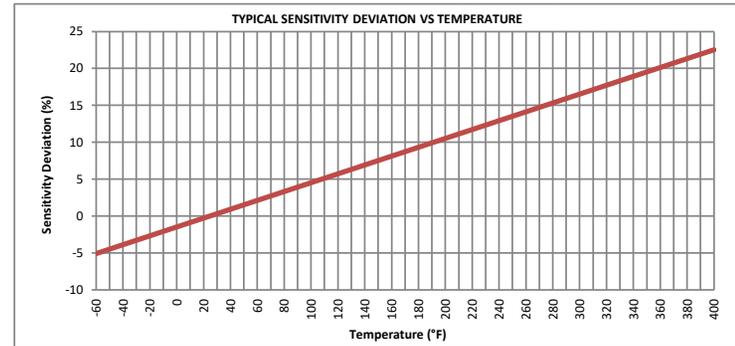
Please, refer to the performance specifications of the products in this family for detailed description.

SUPPLIED ASCESSORIES:

(1) Model 6620 Brass Seal

NOTES:

- [1] 0db Reference: 0.0002 Dynes/cm²
- [2] A calibration certificate traceable to NIST is supplied with each instrument.
- [3] Percent full scale, zero based fit straight line method.
- [4] Full pressure must be applied gradually. Do not exceed 100psi/ sec.
- [5] This parameter depends on the gain settings of the charge amplifier used.
- [6] In the interest of constant product improvement, we reserve the right to change specifications without notice. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.



Dimensions in brackets are in millimeters. Refer to 127-2180C for more information.



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