

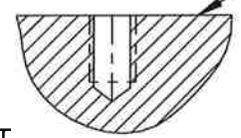
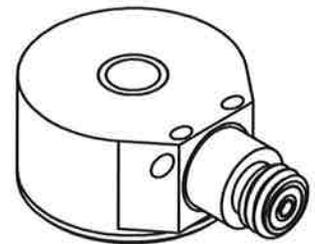
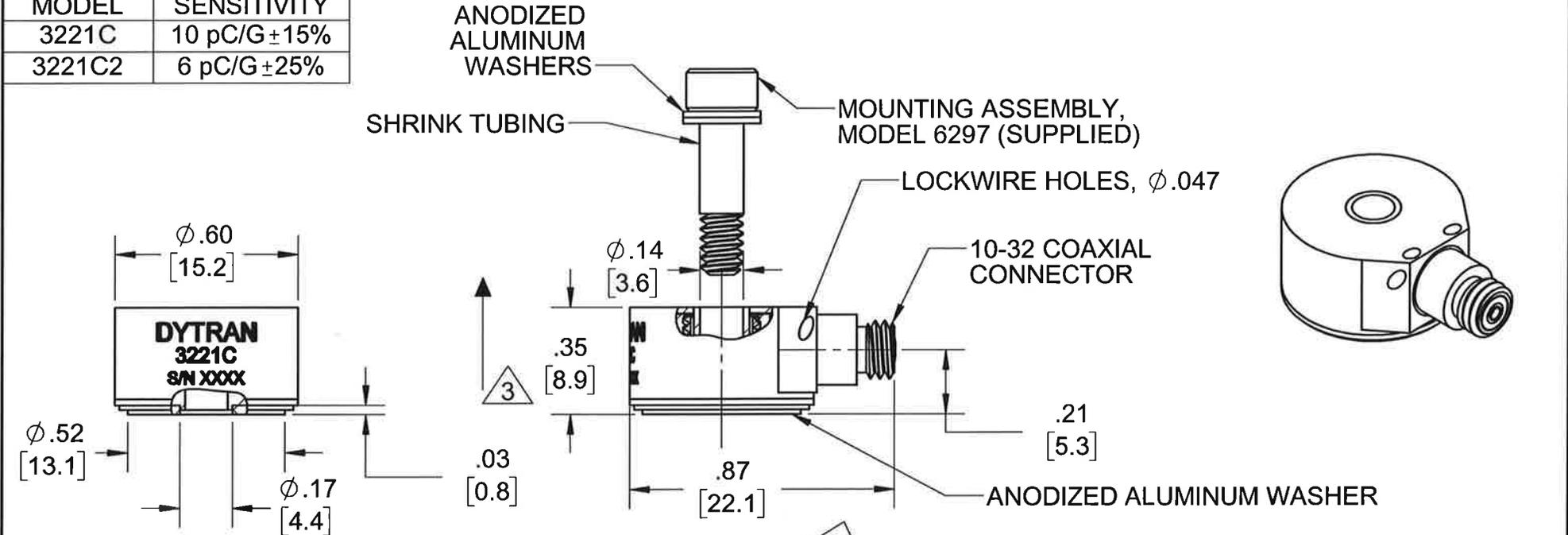
PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DYTRAN INSTRUMENTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DYTRAN INSTRUMENTS, INC. IS PROHIBITED

REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	12622	SEE ECN	EM 04/20/16	MH	AS

MODEL	SENSITIVITY
3221C	10 pC/G ± 15%
3221C2	6 pC/G ± 25%



MOUNTING RECOMMENDATIONS:
 CLEAN SURFACE AT LEAST $\phi .55$, FLAT TO $.0001$ TIR
 TAP 6-32 UNC-2B AT LEAST $\downarrow .13$
 USE SILICON GREASE, TORQUE TO 5-7LB-IN

- 5. MAXIMUM OPERATING TEMPERATURE: 500 °F
- 4. MATERIAL, HOUSING/CONNECTOR: TITANIUM ALLOY
- 3. DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT
- 2. SENSITIVITY: SEE TABLE
- 1. WEIGHT, MAX: 9.0 GRAMS

NOTES: UNLESS OTHERWISE SPECIFIED

USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	
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 ± 0.10 .XX ± 0.25	MATERIAL FINISH DO NOT SCALE DRAWING
---	--

CONTRACT NO.	
APPROVALS	DATE
ORIG DV	08/14/09
CHK DV	06/24/10
APP ANS	06/24/10
APP	

		MASTER ONLY IF IN RED Chatsworth, CA	
TITLE:			
OUTLINE/INSTALLATION DRAWING, MODEL 3221C			
SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3221C	C
SCALE: 2:1	SOLIDWORKS	SHEET 1 OF 1	

MODEL NUMBER 3221C2	PERFORMANCE SPECIFICATION	DOC NO. PS3221C2
CHARGE MODE ACCELEROMETER		REV E, ECN 12622, 04/20/16



- MINIATURE SIZE
- HIGH TEMPERATURE OPERATION
- HERMETICALLY SEALED

PHYSICAL

	ENGLISH		SI	
Weight, Max	0.32	oz	9.0	grams
Mounting Provision	Ø.140 THRU HOLE		Ø.140 THRU HOLE	
Connector [1]	10-32		10-32	
Case Material	Ti 6Al-4V		Ti 6Al-4V	
Sensing Element Type	Piezoceramic		Piezoceramic	

PERFORMANCE

Sensitivity, +/-25% [2] [3]	6	pC/g	0.61	pC / m/s ²
Range F.S	+/-1000	g	+/-9810	m/s ²
Frequency Response, +/- 10%	[5] to 10000	Hz	[5] to 10000	Hz
Mounted Resonant Frequency	>30	kHz	>30	kHz
Amplitude Non-Linearity	1	%F.S MAX	1	%F.S MAX
Transverse Sensitivity, Max	5	%	5	%
Strain Sensitivity @250/μ	0.08	g/μ	0.78	m/s ² /μ

ENVIRONMENTAL

Maximum Vibration	1500	g rms	14700	m/s ² rms
Maximum Shock	5000	g	49000	m/s ²
Temperature Range	-60 to +500	°F	-51 to + 260	°C
Environmental Seal	Hermetic		Hermetic	

ELECTRICAL

Output Signal Polarity	Positive		Positive	
Case Grounding	Case is grounded		Case is grounded	
Base Grounding	Base is isolated		Base is isolated	

This family also includes:

Model	Sensitivity (pC/g)	Range F.S. (g)	Operating Temperature (°F)
3221C	10	± 500	-60 to +500

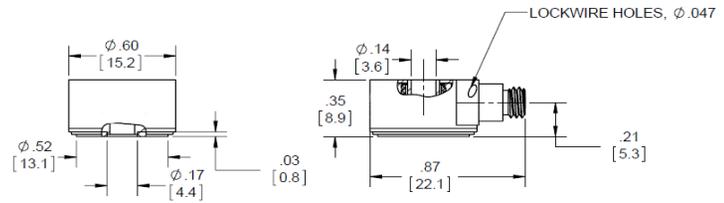
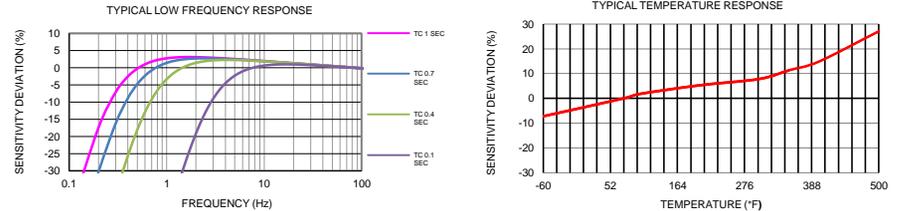
Please, refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories

- 1) Model 6297 mounting assembly
- 2) Accredited calibration certificate (ISO 17025)

Notes:

- [1] Connector , radially mounted, 10-32 coaxial
- [2] Measured at 100 Hz, 1 G RMS per ISA RP37.2.
- [3] Actual sensitivity is on a calibration certificate supplied with each instrument.
- [4] Low frequency response is dependent upon the discharge time constant of the charge amplifier.
- [5] Unit can survive a intermittent exposure to 600°F MAX
- [6] In the interest of constant product improvement, we reserve the right to change specifications without notice.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3221C for more information.



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880 www.dytran.com
For permission to reprint this content, please contact info@dytran.com