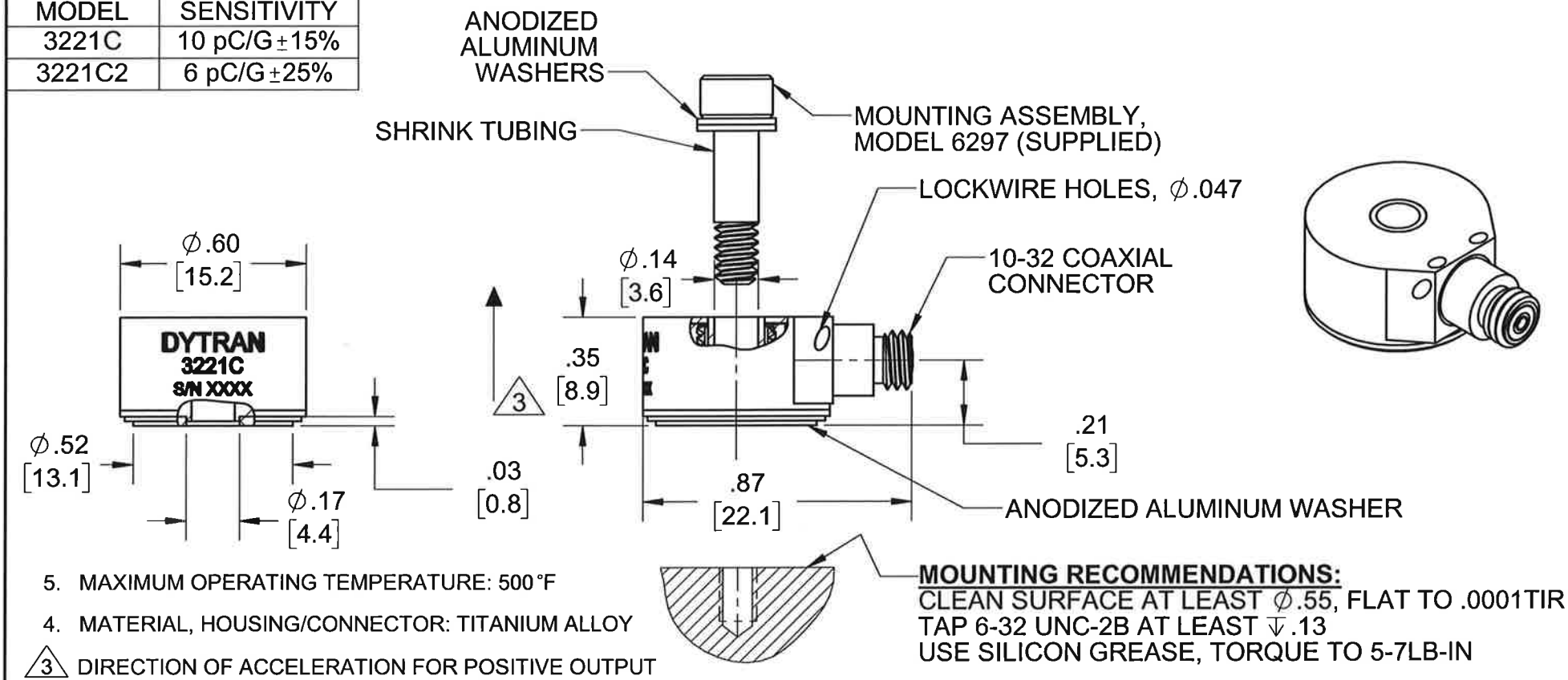
REVISIONS

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%



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

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

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.
63
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	

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		

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

MASTER ONLY IF IN RED

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

172-0081, REV C

MODEL NUMBER 3221C	PERFORMANCE SPECIFICATION	DOC NO. PS3221C
	CHARGE MODE ACCELEROMETER	REV H, ECN 15193, 06/28/19

- **MINIATURE SIZE**
- **HIGH TEMPERATURE OPERATION**
- **HERMETICALLY SEALED**

	ENGLISH		SI	
PHYSICAL				
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, +/-20% [2] [3]	10	pC/g	1.02	pC / m/s^2
Range F.S	[7]		[7]	
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/μσ	0.08	g/με	0.78	m/s^2 /με
ENVIRONMENTAL				
Maximum Vibration	700	g rms	6860	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)	
3221C2	6	[7]	-60 to +500	

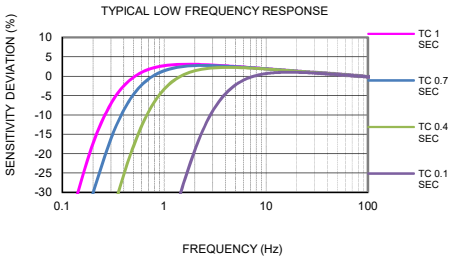
Refer to the performance specifications of the products in this family for detailed description.

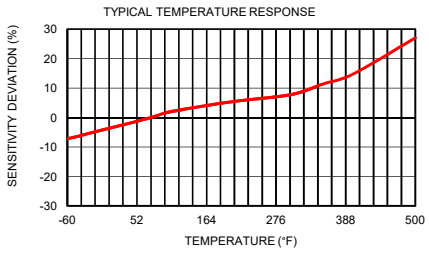
Supplied Accessories

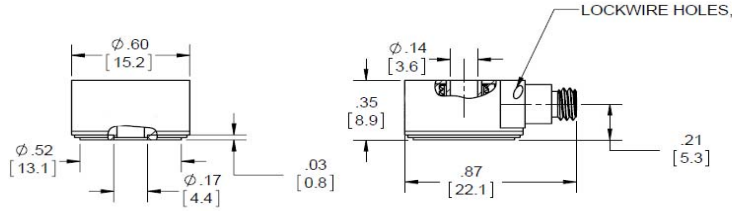
1) Model 6297 mounting assembly
2) Accredited calibration certificate (ISO 17025)

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] This parameter depends on the gain settings of the charge amplifier used.
[7] 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 overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.







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

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