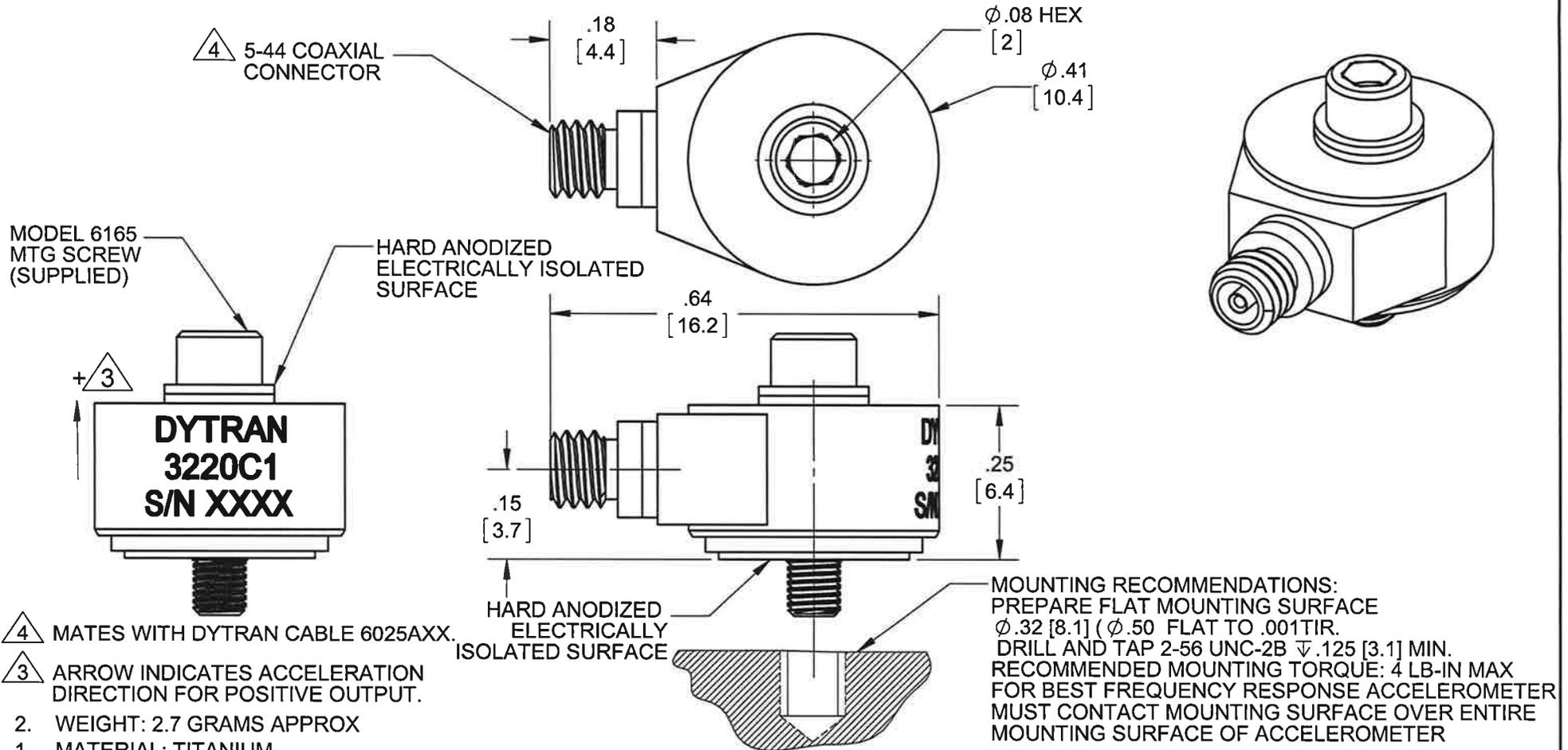


PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	11529	NOTE 4 6025AXX WAS: 6029AXX OR 6040AXX	EM 11/21/14	91	Ar



- 4 MATES WITH DYTRAN CABLE 6025AXX.
 - 3 ARROW INDICATES ACCELERATION DIRECTION FOR POSITIVE OUTPUT.
 - 2. WEIGHT: 2.7 GRAMS APPROX
 - 1. MATERIAL: TITANIUM
- NOTES: UNLESS OTHERWISE SPECIFIED

MOUNTING RECOMMENDATIONS:
 PREPARE FLAT MOUNTING SURFACE
 Ø.32 [8.1] (Ø.50 FLAT TO .001TIR.
 DRILL AND TAP 2-56 UNC-2B ∇.125 [3.1] MIN.
 RECOMMENDED MOUNTING TORQUE: 4 LB-IN MAX
 FOR BEST FREQUENCY RESPONSE ACCELEROMETER
 MUST CONTACT MOUNTING SURFACE OVER ENTIRE
 MOUNTING SURFACE OF ACCELEROMETER

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
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.	
APPROVALS	DATE
ORIG JS	02/03/14
CHK EM	02/05/14
APP DV	02/13/14
APP	

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

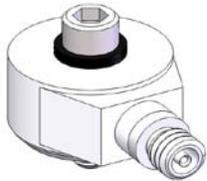
MASTER ONLY IF IN RED

TITLE: **OUTLINE/INSTALLATION DRAWING, 3220C1**

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3220C1	B

SCALE: NONE SOLIDWORKS SHEET 1 OF 1

Model Number 3220C1	PERFORMANCE SPECIFICATIONS	DOC NO PS3220C1
SINGLE AXIS CHARGE MODE ACCELEROMETER		REV B, ECN 11529, 11/21/14



- HERMETICALLY SEALED
- EXCELLENT LINEARITY
- 5-44 CONNECTOR

PHYSICAL

Weight
Size
Connector [3]
Mounting
Material, Housing/Connector
Sensing Element Material

ENGLISH		SI	
Diameter x Height	0.09 oz	2.7	grams
Type	0.41 x 0.25 Inches	10.4 x 6.4	mm
	5-44	5-44	
	2-56 Screw	2-56 Screw	
	TITANIUM	TITANIUM	
	CERAMIC	CERAMIC	

PERFORMANCE

Sensitivity, ±14% [1]
Frequency Range, ± 10%
Resonant Frequency
Maximum Transverse sensitivity
Capacitance
Resistance, Internal
Resistance, Housing to Mounting Surface
Coefficient of Thermal Sensitivity
Magnetic Sensitivity
Thermal Shock Sensitivity
Base Strain

	10 pC/g	1.02	pC/m/s ²
	[4] to 10000 Hz	[4] to 10000	Hz
	>40 kHz	>40	kHz
	5 %	5	%
	1,300 pF	1,300	pF
	20 GΩ	20	GΩ
	20 GΩ	20	GΩ
	0.06 %/°F	0.11	%/°C
	0.0002 @ 100 Gauss g/Gauss	20 @ 0.01 Gauss	ms ² /T
	0.16 g/°F	2.8	m/s ² /°C
	0.006 g/με	0.06	m/s ² /με

ENVIRONMENTAL

Maximum Shock
Temperature Range
Seal

	5000 Gpeak	49050	m/s ² peak
	-60 to +500 °F	-51 to +260	°C
	HERMETIC	HERMETIC	

PERFORMANCE SPECIFICATIONS

SINGLE AXIS CHARGE MODE ACCELEROMETER

This family also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)

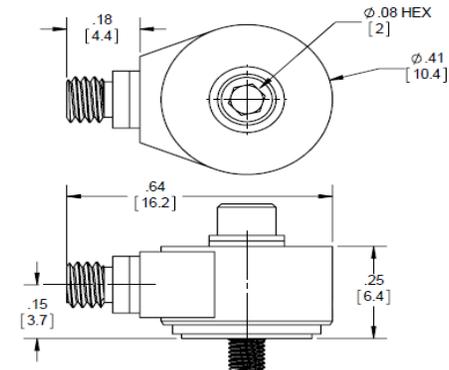
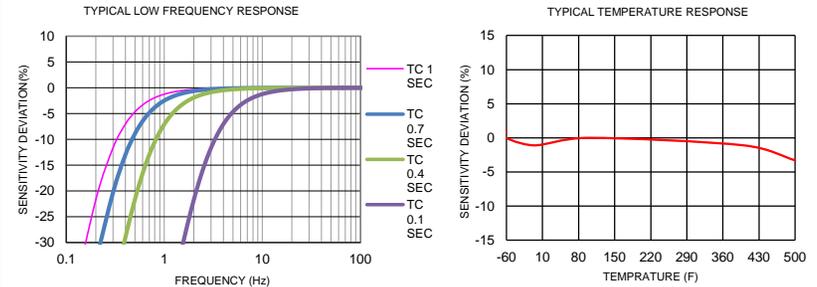
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting screw, Model 6165 supplied

Notes:

- [1] Measured at 100Hz, 1 Grms per ISA RP 37.2.
- [2] Measure using zero-based straight line method, % of F.S. or any lesser range.
- [3] Mates with Dytran cable 6025AXX
- [4] Low frequency response and phase response is a function of charge amplifier. See graph below for example.
- [5] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
- [6] In the interest of constant product improvement, we reserve the right to change specifications without notice.
- [7] Recommended charge amplifier 4752B, Series



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3220C1 for more information.



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