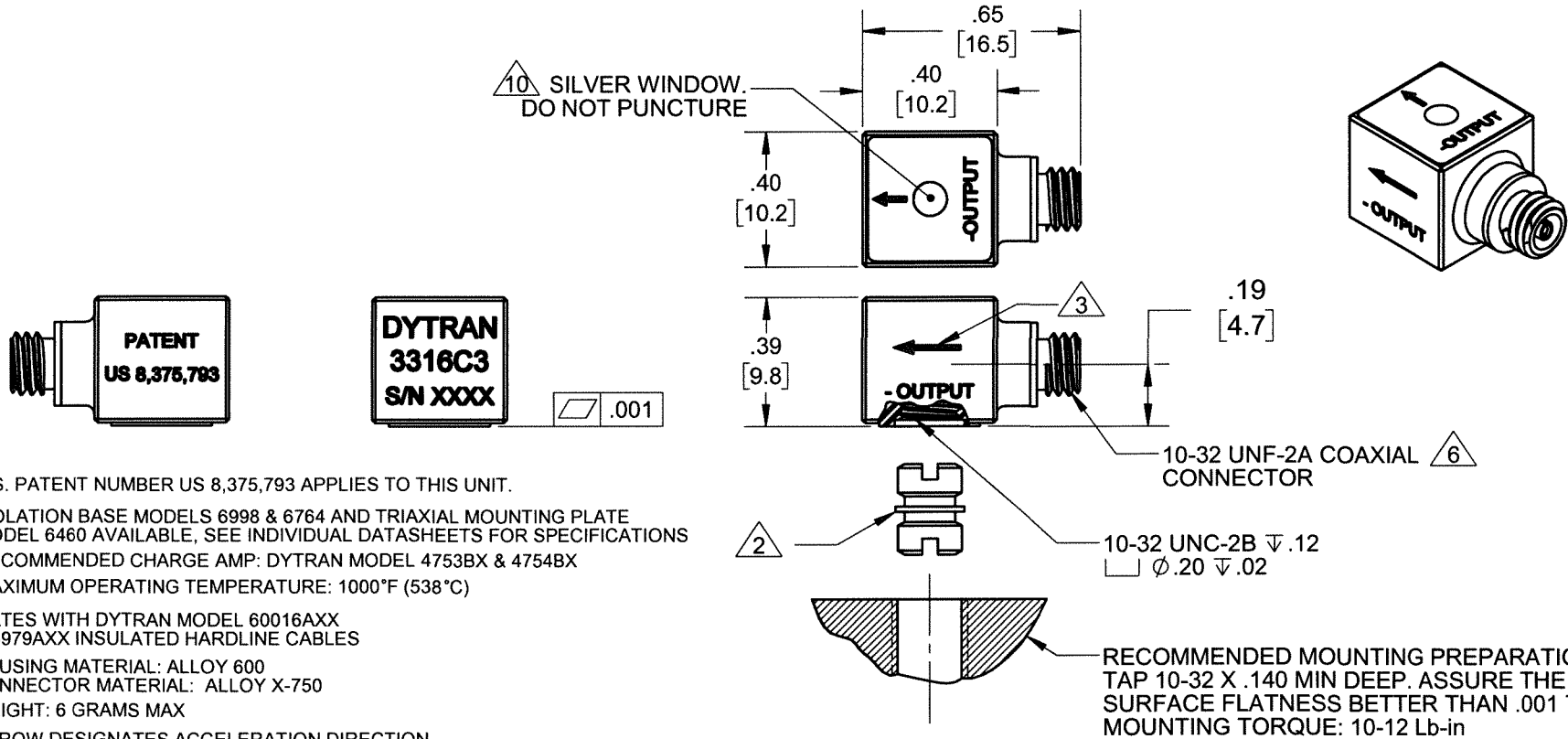


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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	13959	INITIAL RELEASE	NDC 01/16/18	LN	AS
B	15602	REVISED RECOMMENDED ACCESSORIES	KG 02/28/20		



10. U.S. PATENT NUMBER US 8,375,793 APPLIES TO THIS UNIT.
9. ISOLATION BASE MODELS 6998 & 6764 AND TRIAXIAL MOUNTING PLATE MODEL 6460 AVAILABLE, SEE INDIVIDUAL DATASHEETS FOR SPECIFICATIONS
8. RECOMMENDED CHARGE AMP: DYTRAN MODEL 4753BX & 4754BX
7. MAXIMUM OPERATING TEMPERATURE: 1000°F (538°C)
6. MATES WITH DYTRAN MODEL 60016AXX & 6979AXX INSULATED HARDLINE CABLES
5. HOUSING MATERIAL: ALLOY 600
CONNECTOR MATERIAL: ALLOY X-750
4. WEIGHT: 6 GRAMS MAX
3. ARROW DESIGNATES ACCELERATION DIRECTION FOR NEGATIVE OUTPUT
2. MOUNTING STUD 6200S (10-32 TO 10-32) SUPPLIED
1. SENSITIVITY: 1 TO 2 pC/g
- NOTES: UNLESS OTHERWISE SPECIFIED

CONTRACT NO.



Chatsworth, CA

MASTER
ONLY IF IN RED

TITLE:

**OUTLINE/INSTALLATION
DRAWING, 3316C3, X-AXIS**

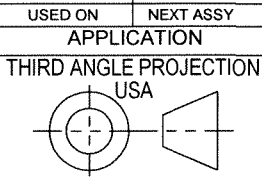
SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3316C3	B
SCALE: NONE	SOLIDWORKS	SHEET 1 OF 1	

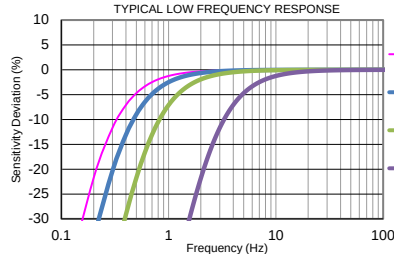
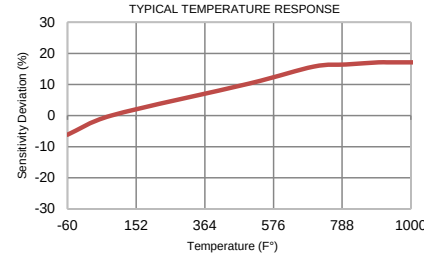
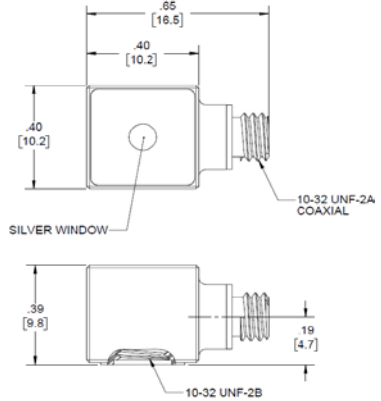
APPROVALS	DATE
ORIG	NDC 12/18/17
CHK	LN 02/15/18
APP	AS 02/15/18
APP	

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	

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. 63
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.



Model Number 3316C3		PERFORMANCE SPECIFICATION				DOC NO PS3316C3																
		SINGLE AXIS CHARGE MODE ACCELEROMETER				REV E, ECN 15735, 04/29/20																
		• X-AXIS DIRECTIONAL OUTPUT • MINIATURE SIZE • HERMETICALLY SEALED • HIGH TEMPERATURE OPERATION																				
		ENGLISH		SI																		
PHYSICAL																						
Weight, Max	Type	0.21	oz	6.0	grams																	
Connector [3]	Tapped Hole	10-32 Coaxial		10-32 Coaxial																		
Mounting Provision		10-32 UNF-2B		10-32 UNF-2B																		
Material	Housing	Alloy 600		Alloy 600																		
	Connector	Alloy X-750		Alloy X-750																		
Element Style	Material	Single Crystal		Single Crystal																		
	Type	Planar Shear		Planar Shear																		
PERFORMANCE																						
Sensitivity [1]		1 to 2	pC/g	0.10 to 0.20	pC/m/s ²																	
Range F.S for ± 5 Volts Output		[9]	G's	[9]	m/s ²																	
Frequency Range, ±10%		[4] to 5000	Hz	[4] to 5000	Hz																	
Resonant Frequency		> 45	kHz	> 45	kHz																	
Capacitance		120	pF	120	pF																	
Linearity [2]		± 1%	% F.S.	± 1%	% F.S.																	
Phase Response (±5°)		[4] to 3000	Hz	[4] to 3000	Hz																	
Maximum Transverse Sensitivity		5	%	5	%																	
Base Strain Sensitivity		0.002	g/με	0.02	m/s ² /με																	
Insulation resistance, (Connector pin to case)		at 75°F > 5	MΩ	at 75°F > 5	Ω																	
		at 1000°F > 0.25	MΩ	at 1000°F > 0.25	Ω																	
Coefficient of Thermal Sens.		0.02	%F	0.02	%F																	
Ground Isolation		Case Grounded		Case Grounded																		
Output Polarity		Negative		Negative																		
ENVIRONMENTAL																						
Maximum Vibration		±6000	G, peak	±58860	m/s ² , peak																	
Maximum Shock		±10000	G, peak	±98100	m/s ² , peak																	
Temperature Range		-60 to +1000	°F	-51 to +538	°C																	
Seal		Hermetic		Hermetic																		
Radiation Exposure Limit (Integrated Neutron Flux)		1.0E+10	N/cm ²	1.0E+10	N/cm ²																	
Radiation Exposure Limit (Integrated Gamma Flux)		1.0E+08	rad	1.0E+08	rad																	
		This family also includes: <table><tr><th>Model</th><th>Sensitivity (pC/g)</th><th>Range F.S (G's)</th><th>Output Polarity</th><th>Temperature (°F)</th></tr><tr><td>3316C4</td><td>1 to 2</td><td>-</td><td>Negative (Y-Axis)</td><td>-60 to +1000</td></tr><tr><td>3316C5</td><td>1 to 2</td><td>-</td><td>Negative (Z-Axis)</td><td>-60 to +1000</td></tr></table> Refer to the performance specifications of the products in this family for detailed description. Supplied Accessories: 1) Accredited calibration certificate (ISO 17025) 2) Model 6200S mounting stud (10-32 to 10-32), qty 1 Notes: [1] Measured at 100Hz, 10 Grms per ISA RP 37.2 [2] Measured using zero-based straight line method, % of F.S. or any lesser range. [3] Mates with Dytran cable 60016AXX and 6979AAXX insulated hardline cables. [4] Low frequency response and phase response are a function of the discharge time constant of the charge amplifier used. See graph below for example. [5] 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. [6] Recommended charge amplifier: Dytran Models 4753B & 4754B, Series. [7] Isolation mounting base Model 6764 (triaxial) & Model 6998 (uniaxial) and mounting plate Model 6460 (triaxial) are available. [8] U.S. Patent number US 8,375,793 B2 applies to this unit. [9] This parameter depends on the gain settings of the charge amplifier used. TYPICAL LOW FREQUENCY RESPONSE  TYPICAL TEMPERATURE RESPONSE   Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3316C3 for more information.						Model	Sensitivity (pC/g)	Range F.S (G's)	Output Polarity	Temperature (°F)	3316C4	1 to 2	-	Negative (Y-Axis)	-60 to +1000	3316C5	1 to 2	-	Negative (Z-Axis)	-60 to +1000
Model	Sensitivity (pC/g)	Range F.S (G's)	Output Polarity	Temperature (°F)																		
3316C4	1 to 2	-	Negative (Y-Axis)	-60 to +1000																		
3316C5	1 to 2	-	Negative (Z-Axis)	-60 to +1000																		
		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																				