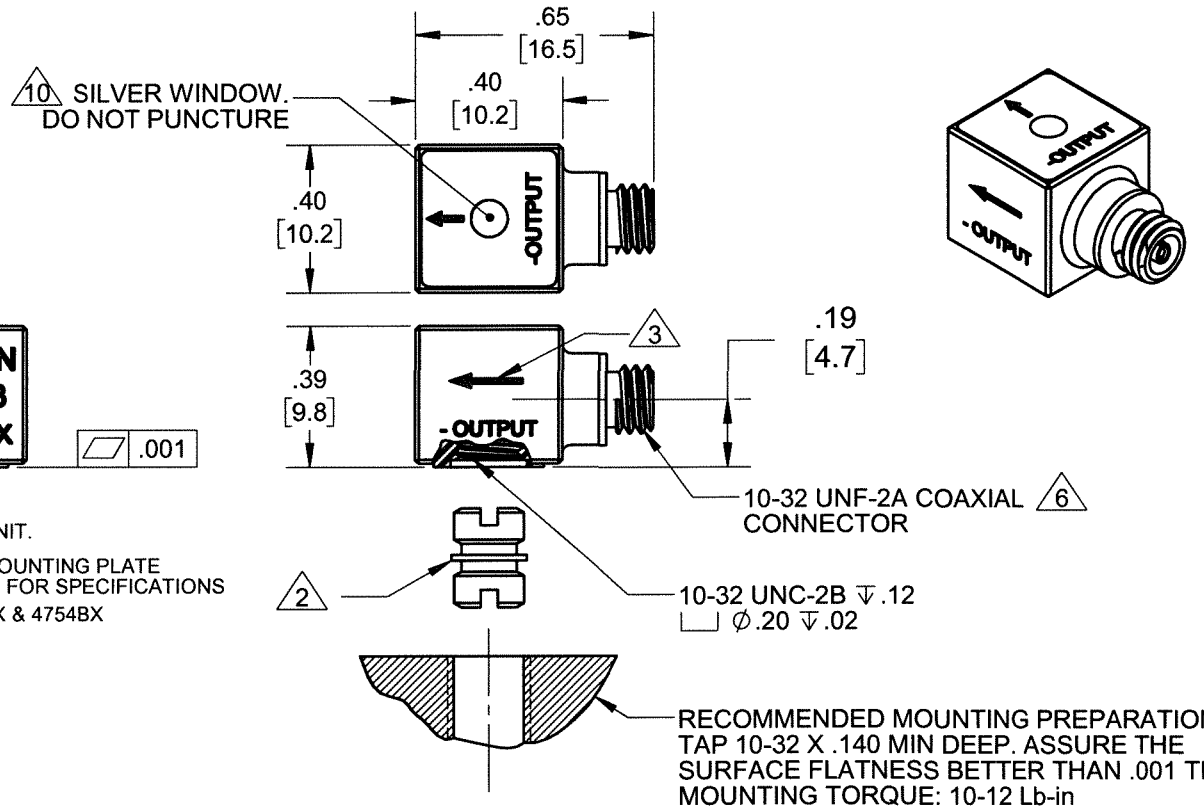
REVISIONS

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

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	NDC	12/18/17
CHK	LN	02/15/18
APP	AS	02/15/18
APP		

DYTRAN INSTRUMENTS, INC. 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

Model Number 3316C3	PERFORMANCE SPECIFICATION	DOC NO PS3316C3
	SINGLE AXIS CHARGE MODE ACCELEROMETER	REV D, ECN 15602, 03/02/20

- **X-AXIS DIRECTIONAL OUTPUT**
- **MINIATURE SIZE**
- **HERMETICALLY SEALED**
- **HIGH TEMPERATURE OPERATION**

		ENGLISH		SI	
PHYSICAL					
Weight, Max		0.21	oz	6.0	grams
Connector [3]	Type	10-32 Coaxial		10-32 Coaxial	
Mounting Provision	Tapped Hole	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	$m/s^2/\mu\varepsilon$
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:

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

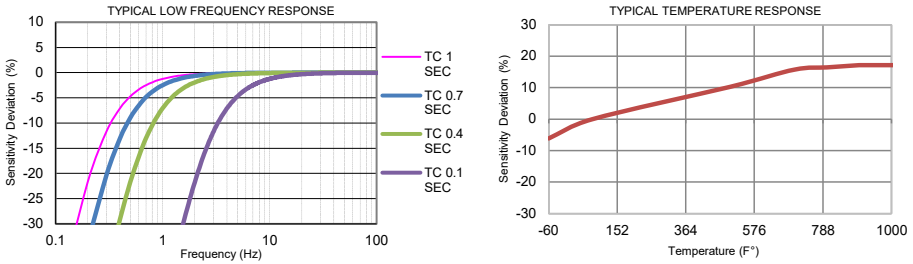
Refer to the performance specifications of the products in this family for detailed description.

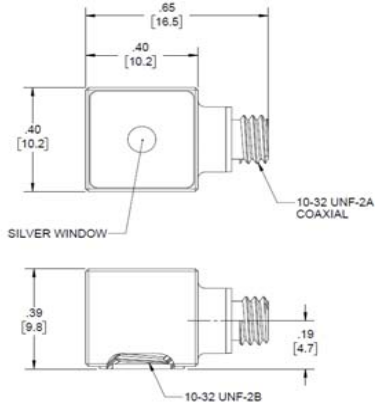
Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)
2) Model 6200S mounting stud (10-32 to 10-32), qty 1

Notes:

[1] Measured at 100Hz, 1 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 6979AXX 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.





Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3316C3 for more information.

DYTRAN INSTRUMENTS, INC.
21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880 www.dytran.com