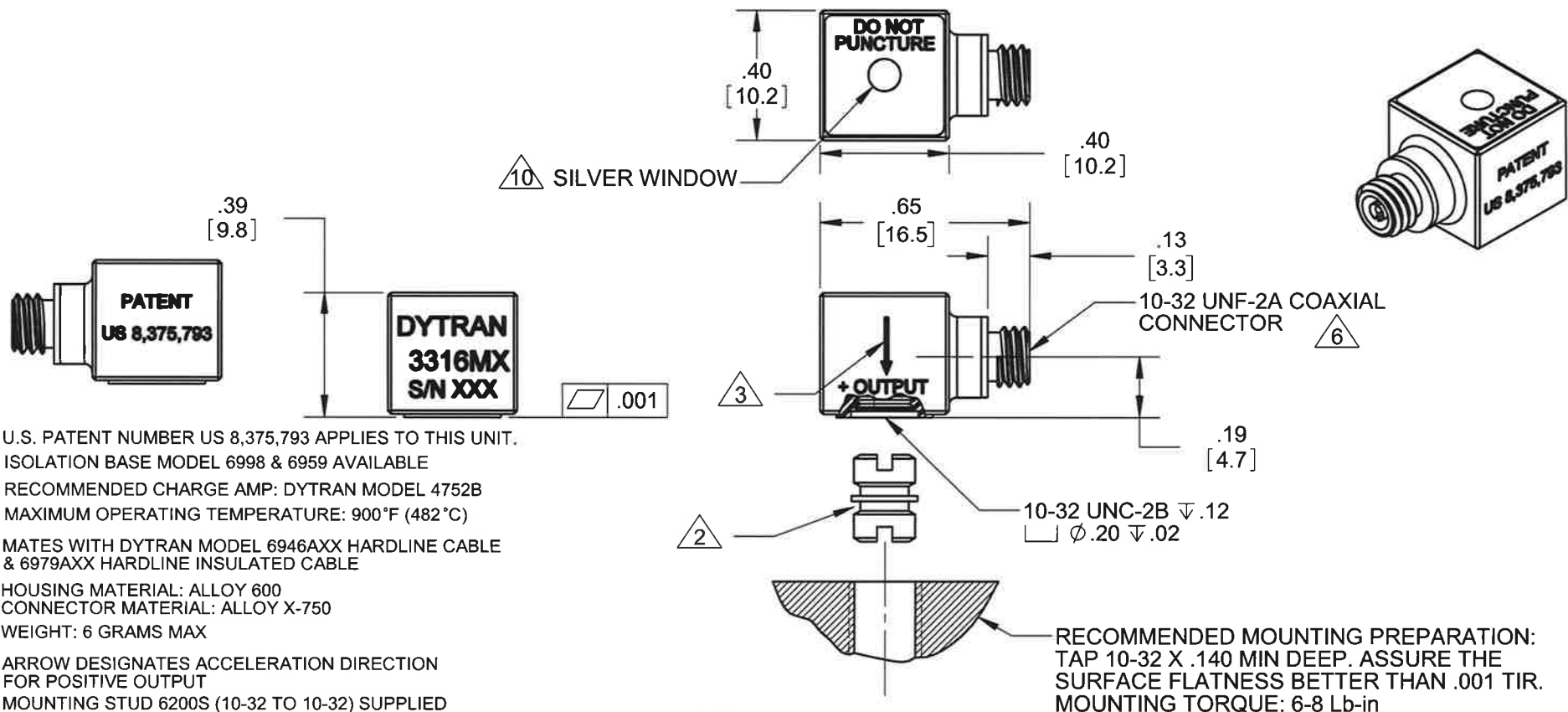


PROPRIETARY AND CONFIDENTIAL

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REVISIONS


REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	11957	NOTE 4 WAS: WEIGHT: 5 GRAMS MAX	JS 05/07/15	LA	DV
D	13509	NOTE 5: CONNECTOR MATERIAL: WAS: UNS K94610, ASTM F-15 IS: ALLOY X-750	AM 6/14/17	W	AS



- 10. U.S. PATENT NUMBER US 8,375,793 APPLIES TO THIS UNIT.
- 9. ISOLATION BASE MODEL 6998 & 6959 AVAILABLE
- 8. RECOMMENDED CHARGE AMP: DYTRAN MODEL 4752B
- 7. MAXIMUM OPERATING TEMPERATURE: 900°F (482°C)
- 6. MATES WITH DYTRAN MODEL 6946AXX HARDLINE CABLE & 6979AXX HARDLINE INSULATED CABLE
- 5. HOUSING MATERIAL: ALLOY 600
CONNECTOR MATERIAL: ALLOY X-750
- 4. WEIGHT: 6 GRAMS MAX
- 3. ARROW DESIGNATES ACCELERATION DIRECTION FOR POSITIVE OUTPUT
- 2. MOUNTING STUD 6200S (10-32 TO 10-32) SUPPLIED
- 1. SENSITIVITY: 1 TO 2 pC/g

NOTES: UNLESS OTHERWISE SPECIFIED

USED ON 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.	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	CONTRACT NO. APPROVALS ORIG RA 03/23/12 CHK ANS 04/16/12 APP EP 04/26/12 APP	DATE 03/23/12 04/16/12 04/26/12	DYTRAN MASTER INSTRUMENTS, INC. Chatsworth, CA ONLY IF IN RED	TITLE: OUTLINE/INSTALLATION DRAWING, 3316M1	SIZE A	CAGE CODE 2W033	DWG. NO. 127-3316M1	REV D
		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.	MATERIAL FINISH DO NOT SCALE DRAWING	SCALE: NONE SOLIDWORKS SHEET 1 OF 1							

Model Number 3316M1		PERFORMANCE SPECIFICATION				DOC NO PS3316M1		
		SINGLE AXIS CHARGE MODE ACCELEROMETER				REV H, ECN 14095, 03/14/18		
<div></div> <ul style="list-style-type: none">• MINIATURE SIZE• HERMETICALLY SEALED• HIGH TEMPERATURE OPERATION		This family also includes:						
		Model	Sensitivity (pC/g)	Range F.S (G's)	Output Polarity	Temperature (°F)		
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 6946AXX hardline cable and 6979AXX hardline insulated cable.								
[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.								
[6] Recommended charge amplifier: Dytran model 4754B, Series.								
[7] Isolation mounting base model 6959 (triaxial) and 6998 (uniaxial) 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.								
PHYSICAL		ENGLISH		SI				
Weight, Max		0.21	oz	6.0	grams			
Size	Square x Height	.40 x .39	Inches	10.16 x 9.8	mm			
Connector [3]	Type	10-32 Coaxial		10-32 Coaxial				
Mounting Provision : Tapped Hole		10-32 UNC-2B		10-32 UNC-2B				
Material	Housing	Alloy 600		Alloy 600				
Element Style	Connector	Alloy X-750		Alloy X-750				
	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 10000	Hz	[4] to 10000	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	%			
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 900°F > 0.25	MΩ	at 900°F > 0.25	Ω			
Coefficient of Thermal Sens.		0.02	%F	0.02	%F			
Ground Isolation		Case Ground		Case Ground				
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+900	°F	-51 to+482	°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			