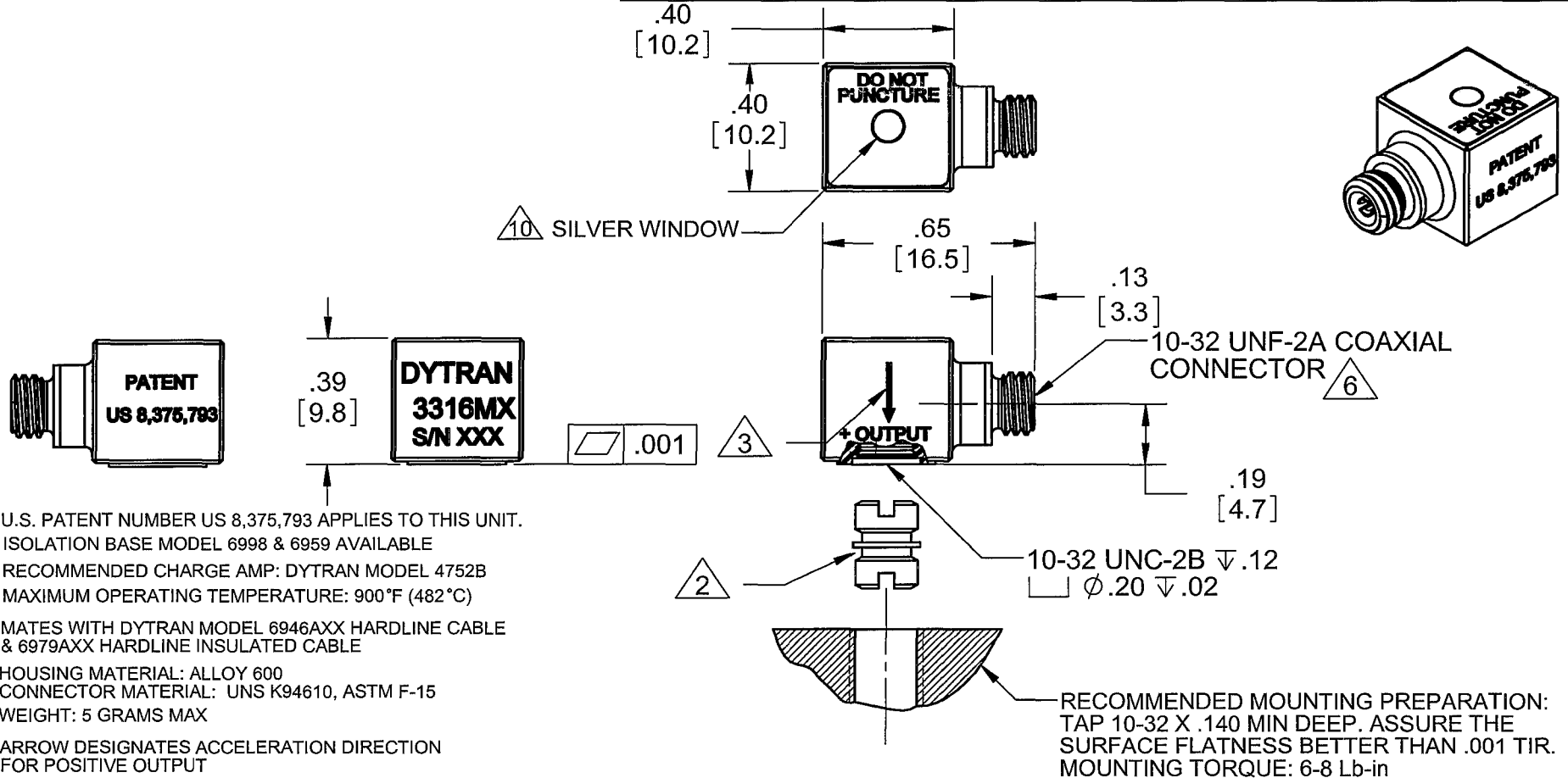


**PROPRIETARY AND CONFIDENTIAL**

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**REVISIONS**

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	9749	NOTE 10 WAS: DESIGN IS PATENT PENDING	AB 03/18/13	JLS	RA



- △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: UNS K94610, ASTM F-15
- 4. WEIGHT: 5 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	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.

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

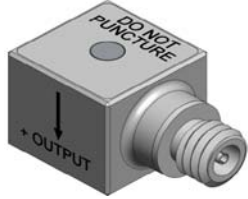
CONTRACT NO.

APPROVALS		DATE
ORIG	RA	03/23/12
CHK	ANS	04/16/12
APP	EP	04/26/12
APP		

**DYTRAN INSTRUMENTS, INC.** **MASTER ONLY IF IN RED** Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION DRAWING, 3316M1**

SIZE <b>A</b>	CAGE CODE <b>2W033</b>	DWG. NO. <b>127-3316M1</b>	REV <b>B</b>
SCALE: NONE	SOLIDWORKS	SHEET 1 OF 1	



- MINIATURE SIZE
- HERMETICALLY SEALED
- HIGH TEMPERATURE OPERATION

**PHYSICAL**

Weight, Max	
Size	Square x Height
Connector [3]	Type
Mounting Provision : Tapped Hole	
Material	Housing
	Connector
Element Style	Material
	Type

	ENGLISH		SI	
Weight, Max	0.18	oz	5.0	grams
Size	.40 x .39	Inches	10.16 x 9.8	mm
Connector [3]	10-32 Coaxial		10-32 Coaxial	
Mounting Provision : Tapped Hole	10-32 UNC-2B		10-32 UNC-2B	
Material	Alloy 600		Alloy 600	
	UNS K94610		UNS K94610	
Element Style	Single Crystal		Single Crystal	
	Planar Shear		Planar Shear	

**PERFORMANCE**

	ENGLISH		SI	
Sensitivity [1]	1 to 2	pC/g	0.10 to 0.20	pC/m/s <sup>2</sup>
Range F.S for ± 5 Volts Output	±5000	G's	±49050	m/s <sup>2</sup>
Frequency Range, ±10%	[4] to 10000	Hz	[4] to 10000	Hz
Resonant Frequency	> 45	kHz	> 45	kHz
Capacitance	70	pF	70	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/μe	0.02	m/s <sup>2</sup> /μe
Insulation resistance, (Connector pin to case)	at 75°F > 5	MΩ	at 900°F > 0.25	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**

	ENGLISH		SI	
Maximum Vibration	±6000	G, peak	±58860	m/s <sup>2</sup> , peak
Maximum Shock	±10000	G, peak	±98100	m/s <sup>2</sup> , peak
Temperature Range	-60 to +900	°F	-51 to +482	°C
Seal	Hermetic		Hermetic	

**This family also includes:**

Model	Sensitivity (pC/g)	Range F.S (G's)	Output Polarity	Temperature (°F)

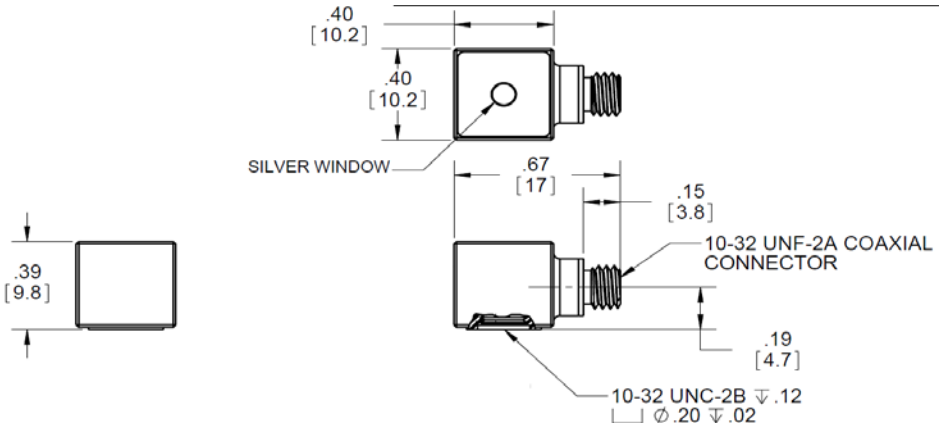
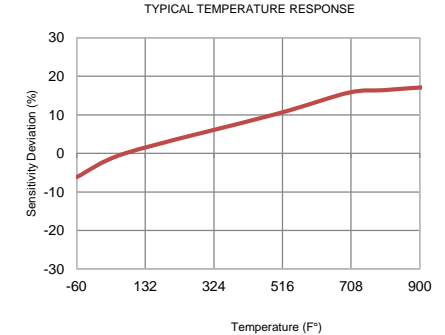
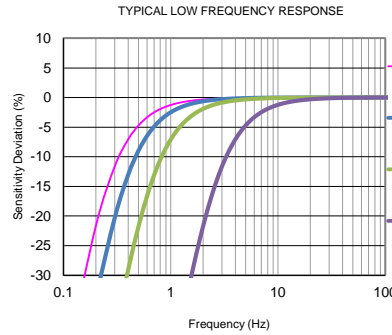
Refer to the performance specifications of the products in this family for detailed description.

**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 is function of charge amplifier. 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.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3316M1 for more information.



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