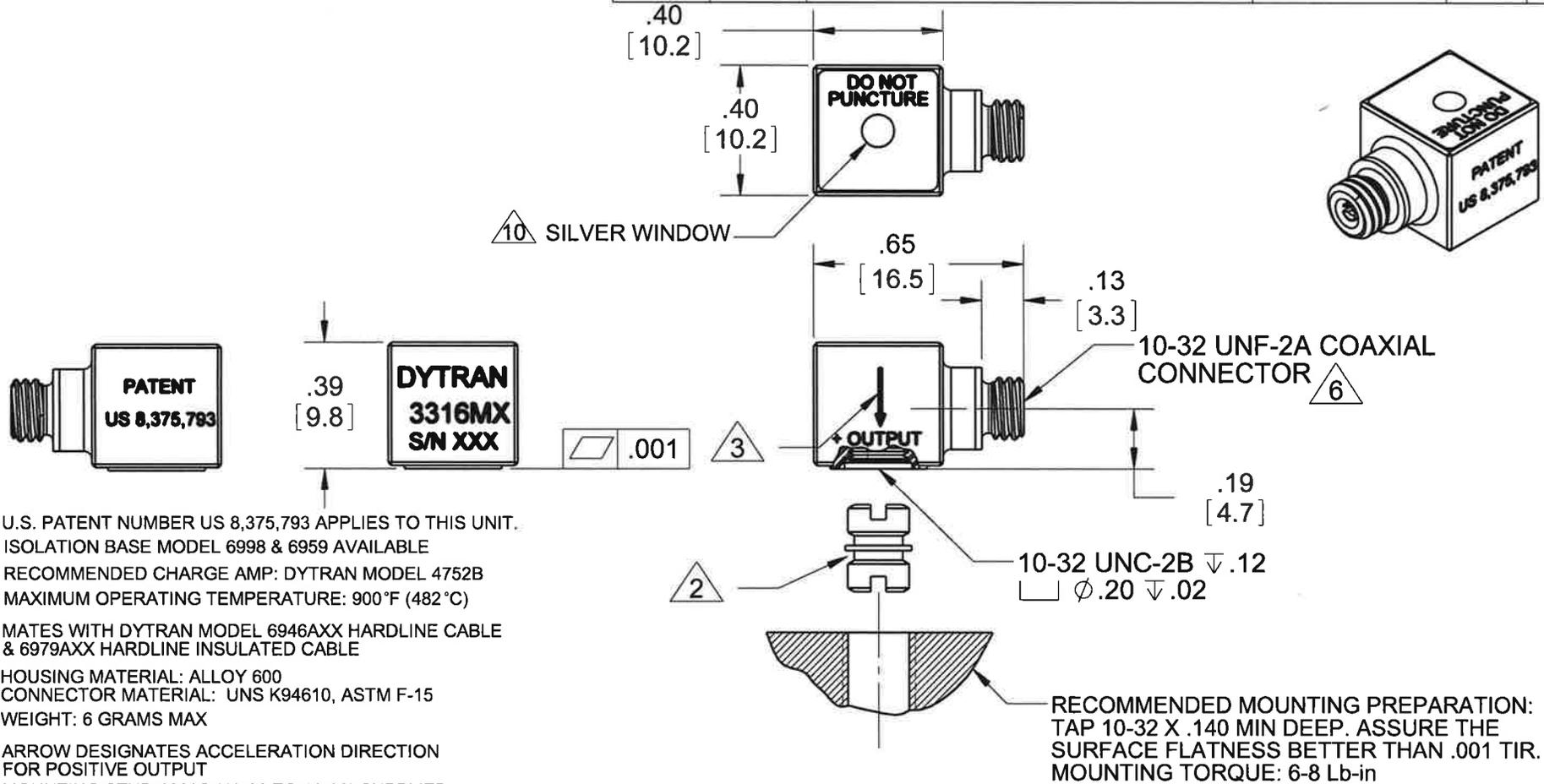


**PROPRIETARY AND CONFIDENTIAL**

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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	



- 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: 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	NEXT ASSY
<b>APPLICATION</b>	
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.

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

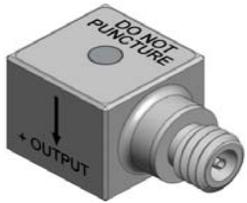
DO NOT SCALE DRAWING

CONTRACT NO.	
APPROVALS	
ORIG	DATE
CHK	ANS
APP	EP
APP	

**ONLY IN RED**

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

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



- MINIATURE SIZE
- HERMETICALLY SEALED
- HIGH TEMPERATURE OPERATION

**PHYSICAL**

Weight, Max  
Size  
Connector [3]  
Mounting Provision : Tapped Hole  
Material  
Element Style

Square x Height  
Type  
Type  
Housing  
Connector  
Material  
Type

	ENGLISH		SI	
Weight, Max	0.21	oz	6.0	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	
Element Style	UNS K94610		UNS K94610	
	Single Crystal		Single Crystal	
	Planar Shear		Planar Shear	

**PERFORMANCE**

Sensitivity [1]  
Range F.S for ± 5 Volts Output  
Frequency Range, ±10%  
Resonant Frequency  
Capacitance  
Linearity [2]  
Phase Response (±5°)  
Maximum Transverse sensitivity  
Strain Sensitivity  
Insulation resistance, (Connector pin to case)  
Coefficient of Thermal Sens.  
Ground Isolation

	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	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 <sup>2</sup> /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  
Maximum Shock  
Temperature Range  
Seal

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	

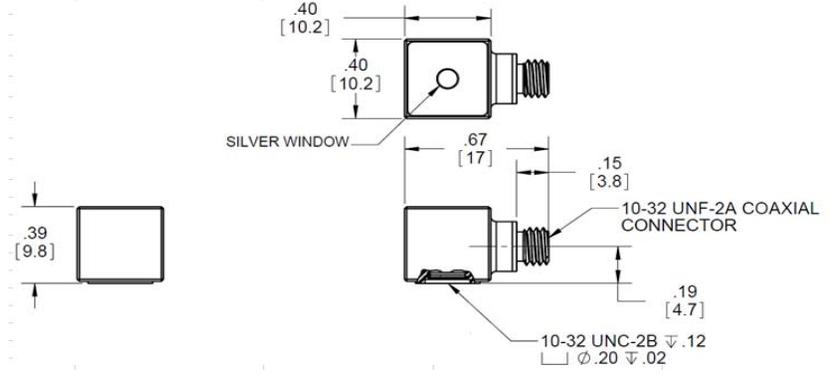
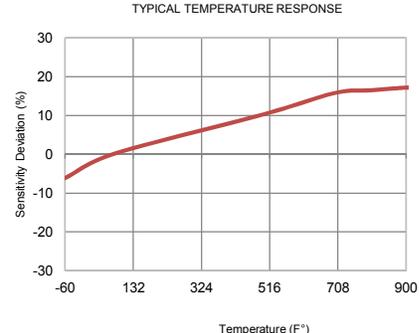
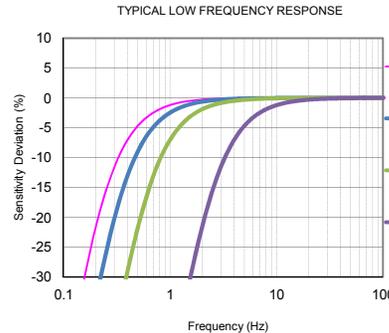
**This family also includes:**

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.

