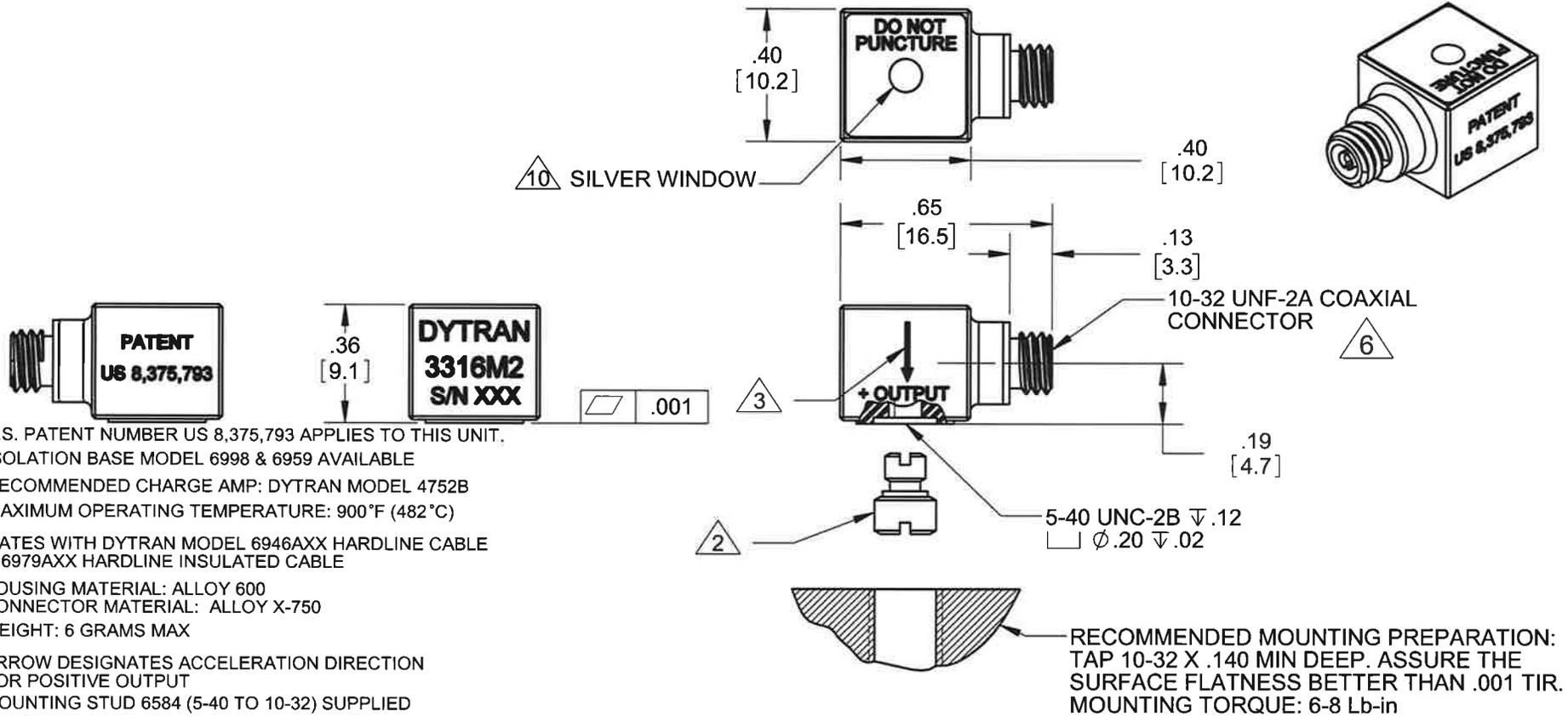


PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	11957	NOTE 4 WAS: WEIGHT: 5 GRAMS MAX	AB 03/18/13	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 6584 (5-40 TO 10-32) SUPPLIED
- 1. SENSITIVITY: .5 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.	
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.	

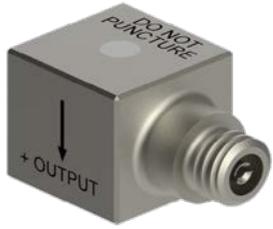
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS TOLERANCES ARE: INCHES METRIC ANGLES .XX ± .03 .X ± 0.8 ± 1° .XXX ± .010 .XX ± 0.25		
MATERIAL		
FINISH		
DO NOT SCALE DRAWING		

CONTRACT NO.		
APPROVALS		DATE
ORIG	AB	09/25/12
CHK	JS	09/26/12
APP	DV	09/28/12
APP		

DYTRAN MASTER
INSTRUMENTS, INC. Chatsworth, CA
ONLY IT IN RED

TITLE: OUTLINE/INSTALLATION DRAWING, 3316M2

SIZE A	CAGE CODE 2W033	DWG. NO. 127-3316M2	REV D
SCALE: NONE		SOLIDWORKS	SHEET 1 OF 1



- MINIATURE SIZE
- HERMETICALLY SEALED
- HIGH TEMPERATURE OPERATION

PHYSICAL

Weight, Max		oz	6.0	grams
Size	Square x Height	Inches	10.16 x 9.10	mm
Connector [3]	Type		10-32 Coaxial	
Mounting Provision : Tapped Hole			5-40 UNC-2B	
Material	Housing		Alloy 600	
	Connector		Alloy X-750	
Element Style	Material		Single Crystal	
	Type		Planar Shear	

ENGLISH		SI	
Weight, Max	0.21	oz	6.0
Size	.40 x .36	Inches	10.16 x 9.10
Connector [3]	10-32 Coaxial		10-32 Coaxial
Mounting Provision : Tapped Hole	5-40 UNC-2B		5-40 UNC-2B
Material	Alloy 600		Alloy 600
	Alloy X-750		Alloy X-750
Element Style	Single Crystal		Single Crystal
	Planar Shear		Planar Shear

PERFORMANCE

Sensitivity [1]	.5 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/μe	0.02	m/s ² /μe
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

This family also includes:

Model	Sensitivity (pC/g)	Output Polarity	Temperature (°F)
3316C	1 to 2	Positive when mounted on its base	-60 to+900
3316C1	1 to 2	Negative when mounted on its base	-60 to+900

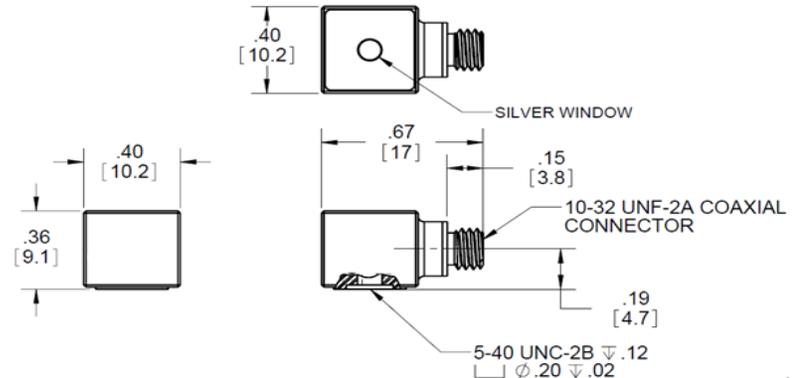
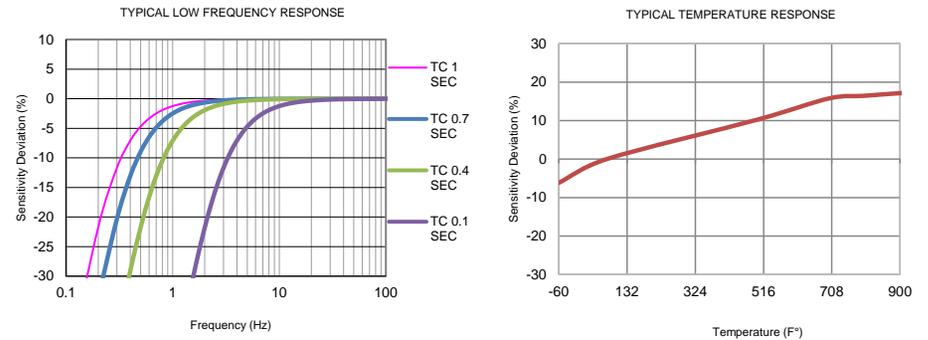
Refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6584 mounting stud (5-40 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.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3316M2 for more information.

