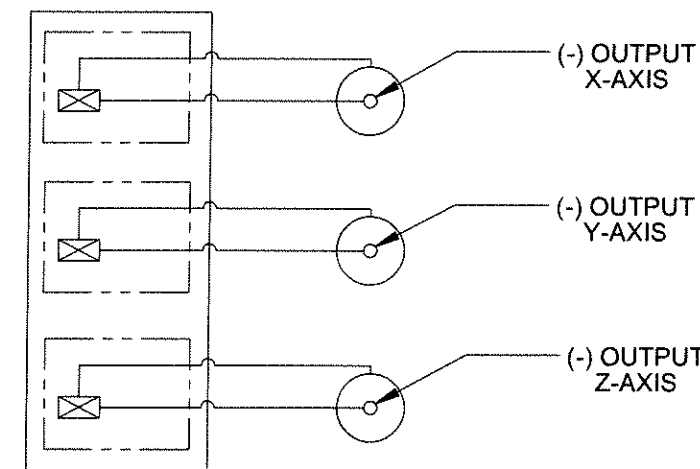
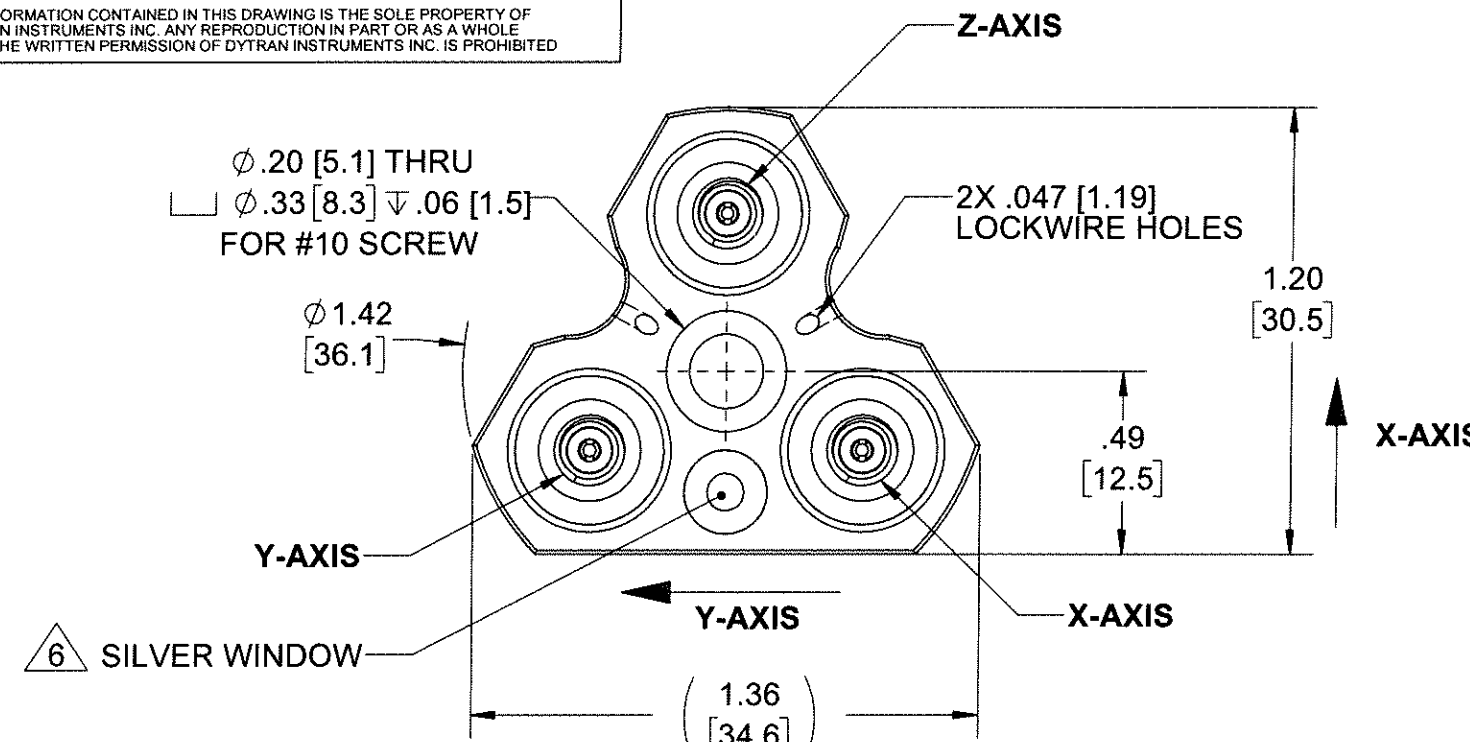
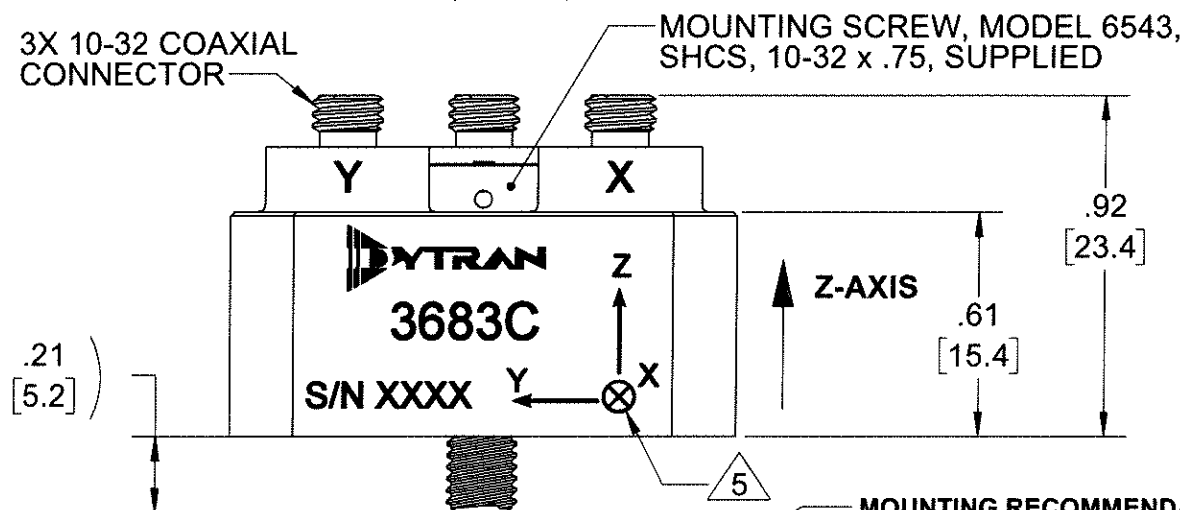


THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DYTRAN INSTRUMENTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DYTRAN INSTRUMENTS INC. IS PROHIBITED

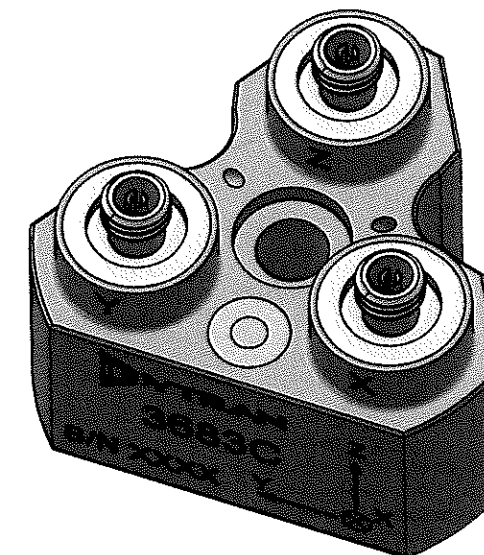
REVISIONS					
REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	13438	INITIAL RELEASE SAME AS REV X1	LN 10/08/18	<i>[Signature]</i>	KG



**SCHEMATIC DIAGRAM**



**MOUNTING RECOMMENDATION:**  
 PREPARE A  $\phi 1.50$  [38.1] MIN SURFACE, FLAT TO .001 TIR.  
 TAP 10-32 UNF-2B  $\nabla .25$  [6.4] MIN.  
 MOUNTING TORQUE: 10-12 Lb-in.



6 US PATENT NUMBER US 8,375,793 B2

5 ARROWS INDICATE DIRECTION OF ACCELERATION FOR NEGATIVE (-) OUTPUT

4. MAXIMUM OPERATING TEMPERATURE: 1000°F [538°C]

3. CHARGE SENSITIVITY: 1.0 - 2.0 pC/g

2. WEIGHT: 65 GRAMS, MAX.

1. HOUSING MATERIAL: ALLOY 600

NOTES: UNLESS OTHERWISE SPECIFIED

<small>UNLESS OTHERWISE SPECIFIED:          INTERPRET DIM &amp; 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.          DIMENSIONS APPLY AFTER FINISHING.</small>	<small>UNLESS OTHERWISE SPECIFIED:          DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS. TOLERANCES ARE:</small>				
	<small>DECIMALS XX ± .03 XXX ± .010</small>	<small>METRIC X ± 0.8 XX ± 0.25</small>			<small>ANGLES ± 1°</small>
	<small>APPROVALS</small>		<small>DATE</small>		
	<small>ORIG</small> LN	<small>CHK</small> <i>[Signature]</i>	<small>DATE</small> 03/13/17		
<small>APP</small> KG	<small>DATE</small> 10/15/18	<small>TITLE:</small> OUTLINE/INSTALLATION DWG, HIGH TEMP TRIAX, ISOLATED, 3683C			
<small>DO NOT SCALE DRAWING</small>		<small>SIZE</small> B	<small>CAGE CODE</small> 2W033	<small>DWG NO</small> 127-3683C	<small>REV</small> A
		<small>SCALE:</small> 2:1		<small>SHEET 1 OF 1</small>	



- 1000°F [538°C] OPERATION
- CASE ISOLATED
- CENTER THROUGH HOLE MOUNT
- HERMETICALLY SEALED

**PHYSICAL**

Weight, Max. Type  
 Connector Type  
 Mounting Provision  
 Material Housing  
 Element Style Material Type

ENGLISH		SI	
2.28	oz	65	grams
3X 10-32		3X 10-32	
Thru Hole, #10 Screw		Thru Hole, #10 Screw	
Alloy 600		Alloy 600	
Single Crystal		Single Crystal	
Shear		Shear	

**PERFORMANCE**

Sensitivity [1]  
 Frequency Range, ±5%  
 Frequency Range, ±3dB  
 Resonant Frequency  
 Capacitance  
 Linearity [2]  
 Maximum Transverse Sensitivity  
 Base Strain Sensitivity  
 Magnetic Sensitivity, Typ.  
 Insulation Resistance  
 Output Polarity

1 to 2	pC/g	0.10 to 0.20	pC/m/s <sup>2</sup>
[3] to 1000	Hz	[3] to 1000	Hz
[3] to 3000	Hz	[3] to 3000	Hz
> 9	kHz	> 9	kHz
120	pF	120	pF
± 1%	% F.S.	± 1%	% F.S.
6	%	6	%
0.01	g/με	0.10	m/s <sup>2</sup> /με
0.016	g/Gauss	0.00163	m/s <sup>2</sup> /Gauss
at 75°F >3.0E7	Ω	at 75°F >3.0E7	Ω
at 1000°F >1.0E5	Ω	at 1000°F >1.0E5	Ω
Negative		Negative	

**ENVIRONMENTAL**

Maximum Vibration  
 Maximum Shock  
 Temperature Range  
 Seal  
 Ground Isolation

±1000	g rms	±9810	m/s <sup>2</sup> , rms
±3000	g pk	±29430	m/s <sup>2</sup> , pk
-67 to +1000	°F	-55 to +538	°C
Hermetic		Hermetic	
Case Isolated		Case Isolated	

**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.

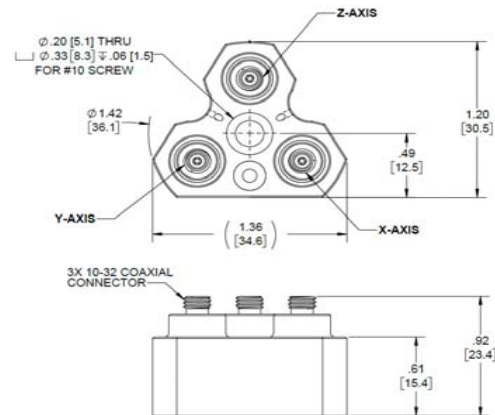
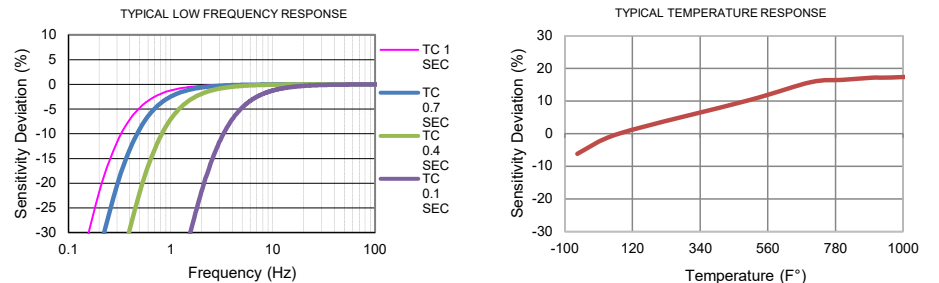
**Supplied Accessories:**

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting screw, model 6543 (SHCS, 10-32 X .75), qty 1

**Notes:**

- [1] Measured at 100Hz, 1 g rms per ISA RP 37.2
- [2] Measured using zero-based straight line method, % of F.S. or any lesser range.
- [3] Low frequency response and phase response is function of charge amplifier. See graph below for example.
- [4] In the interest of constant product improvement, we reserve the right to change specifications without notice.
- [5] U.S. Patent number US 8,375,793 B2 applies to this unit.
- [6] 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 overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3683C for more information.

