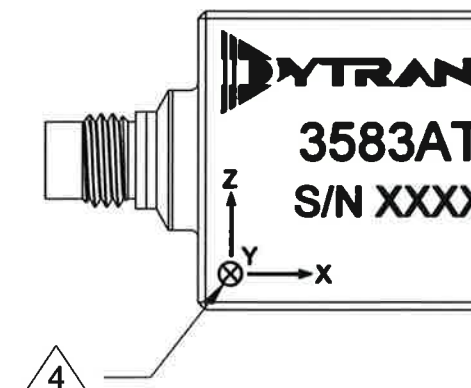
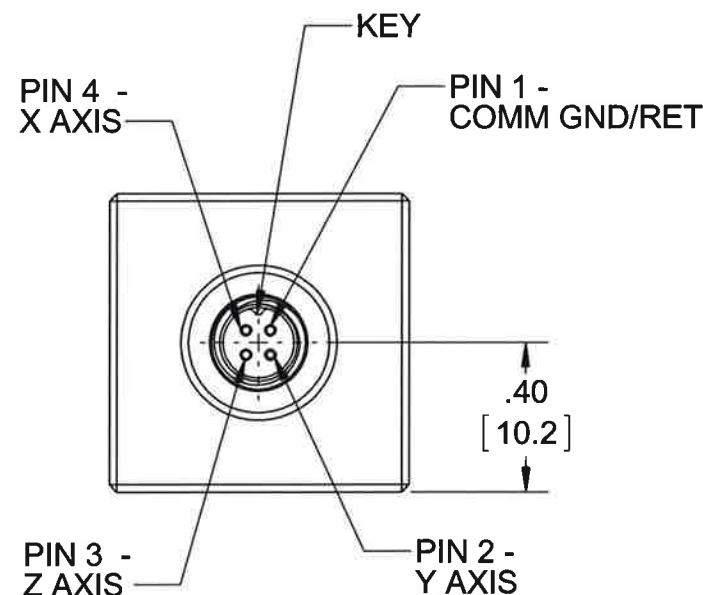
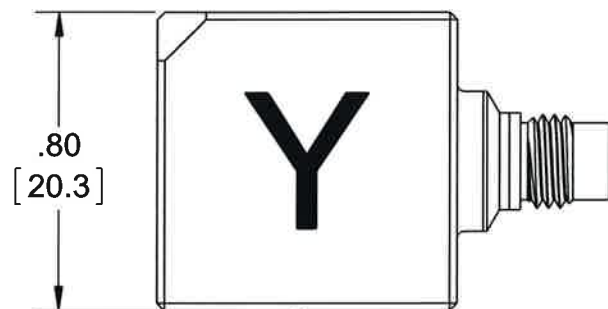
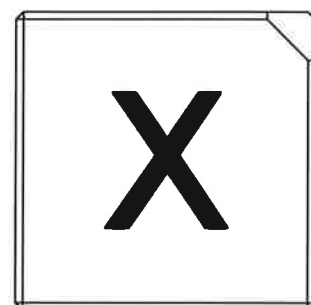
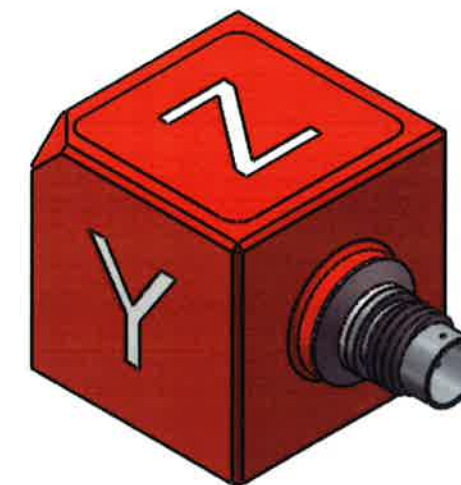
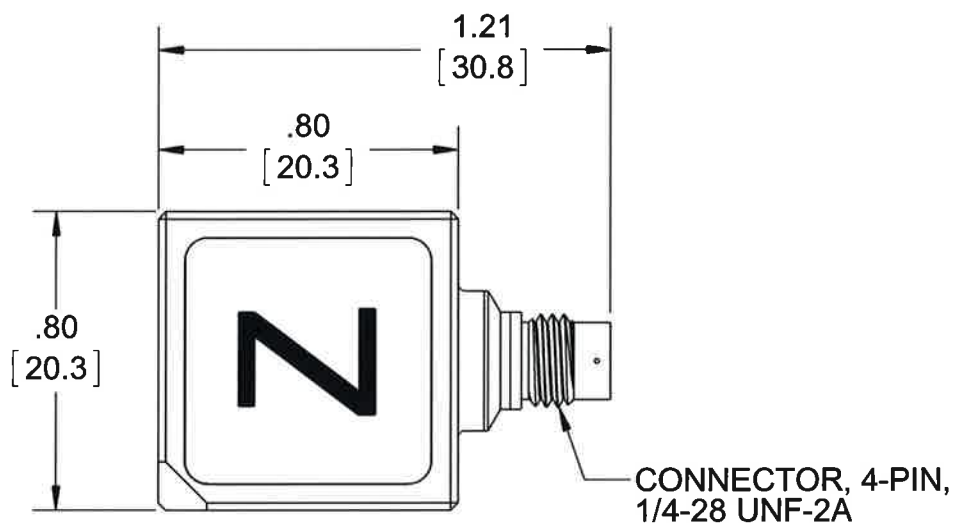


PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	11982	INITIAL RELEASE SAME AS REV X3	LN 11/19/15	<i>[Signature]</i>	As



4 ARROWS INDICATE DIRECTIONS OF ACCELERATION FOR POSITIVE-GOING OUTPUT SIGNAL

3. CONNECTOR MATERIAL: TITANIUM ALLOY

2. HOUSING MATERIAL: ALUMINUM ALLOY, ANODIZED. COLOR: RED

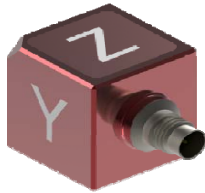
1. WEIGHT: 27 GRAMS, MAX.

NOTES: UNLESS OTHERWISE SPECIFIED

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. DIMENSIONS APPLY AFTER FINISHING.	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DIMENSIONS IN BRACKETS ARE IN MILLIMETERS TOLERANCES ARE: DECIMALS METRIC ANGLES .XX ±.03 .X ± 0.8 ±1° .XXX ±.010 .XX ±0.25			<b>DYTRAN</b> INSTRUMENTS, INC. Chatsworth, CA		<b>MASTER</b> <b>ONLY IF IN RED</b>	
	APPROVALS		DATE		TITLE:		
	ORIG	LN	01/12/15		OUTLINE/INSTALLATION DWG, MODEL 3583AT		
	CHK	<i>[Signature]</i>	11/23/15				
APP	As	11/24/15		SIZE	CAGE CODE	DWG NO	REV
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION		B	2W033	127-3583AT	A
				SCALE:	2:1	SHEET 1 OF 1	

<b>MODEL 3583AT</b>	<b>PERFORMANCE SPECIFICATIONS</b>	<b>DOC NO. PS3583AT</b>
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	<b>Accelerometer, Triaxial, IEPE</b>	REV A, ECN 11982, 11/19/15
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- HIGH SENSITIVITY
- LOW NOISE
- TEDS FEATURE

	ENGLISH		SI	
Weight, Max.	0.95	oz	27	grams
Connector [1]	4-pin, 1/4-28	Type	4-pin, 1/4-28	
	Titanium Alloy	Material	Titanium Alloy	
Housing	Aluminum, Anodized	Material	Aluminum, Anodized	
	Base Isolated	Isolation	Base Isolated	
Sensing Element	Ceramic	Material	Ceramic	
	Shear	Mode	Shear	

**PERFORMANCE**

	ENGLISH		SI		
Sensitivity, ±10% [2]	500	mV/g	51	mV/m/s <sup>2</sup>	
Acceleration Range, ±	10	Gpeak	98.1	m/s <sup>2</sup> peak	
Frequency Range, ±10%	0.25 to 4000	Hz	0.25 to 4000	Hz	
Resonance Frequency	>15	kHz	>15	kHz	
Linearity [3]	1	%F.S.	1	%F.S.	
Transverse Sensitivity Max	6	%	6	%	
Noise floor	0.0002	Grms	0.002	m/s <sup>2</sup> rms	
Spectral Noise					
	1Hz	30	μGrms/sqr(Hz)	294.3	μm/s <sup>2</sup> rms/sqr(Hz)
	10Hz	7	μGrms/sqr(Hz)	68.67	μm/s <sup>2</sup> rms/sqr(Hz)
	100Hz	9	μGrms/sqr(Hz)	88.29	μm/s <sup>2</sup> rms/sqr(Hz)
	1000Hz	1	μGrms/sqr(Hz)	9.81	μm/s <sup>2</sup> rms/sqr(Hz)
	10000Hz	1	μGrms/sqr(Hz)	9.81	μm/s <sup>2</sup> rms/sqr(Hz)

**ELECTRICAL**

	ENGLISH		SI	
Supply Current Range [4]	2 to 20	mA	2 to 20	mA
Compliance Voltage Range	+18 to +30	VDC	+18 to +30	VDC
Output Impedance, Typ.	100	Ω	100	Ω
Output Bias Voltage	11 to 13	VDC	11 to 13	VDC
Discharge Time Constant	1.0 to 2.0	sec	1.0 to 2.0	sec
TEDS Feature	IEEE 1451.4		IEEE 1451.4	

**ENVIRONMENTAL**

	ENGLISH		SI	
Shock Max	1000	Gpeak	9810	m/s <sup>2</sup>
Vibration Max	50	Gpeak	491	m/s <sup>2</sup>
Operating Temperature	-60 to +185	°F	-51 to +85	°C
Seal	Epoxy		Epoxy	
Magnetic Sensitivity at 100 Gauss	0.00009	g/Gauss	0.0008829	m/s <sup>2</sup> /Gauss
Base Strain Sensitivity, Max	0.002	g/με	0.01962	m/s <sup>2</sup> /με

**This family also includes:**

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp (°F)	TC(sec.)

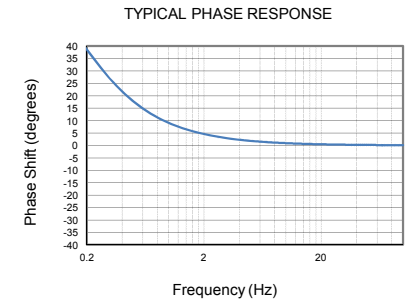
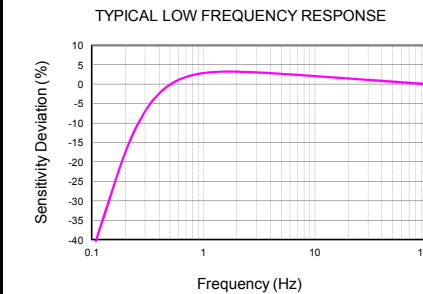
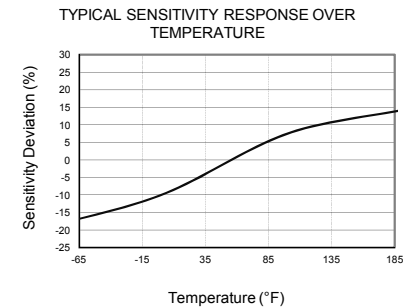
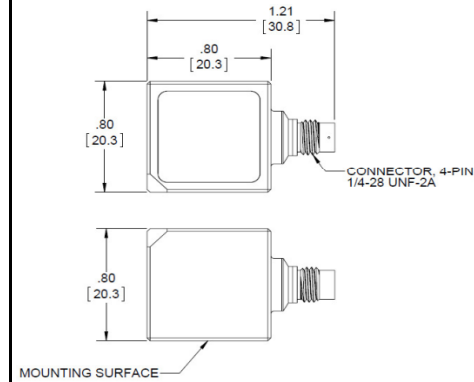
Refer to the performance specifications of the products in this family for detailed description

**Supplied Accessories:**

- 1) Accredited Calibration Certificate (ISO 17025)
- 2) Small amount of Petro mounting wax, Model 6298

**Notes:**

- [1] Mates with Dytran cable Model 6811AXX or 6824AXX (XX denotes length in feet)
- [2] Measured at 100 Hz, 1 Grms per ISA RP 37.2
- [3] Measured using zero-based straight line method, % of F.S. or any lesser range.
- [4] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC amplifier
- [5] In the interest of constant product improvement, Dytran reserves the rights to change specifications without notice.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3583AT for more information.



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