

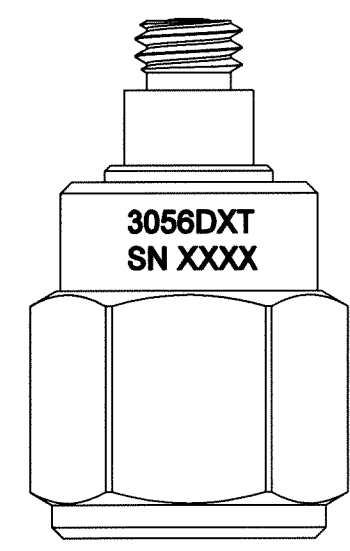
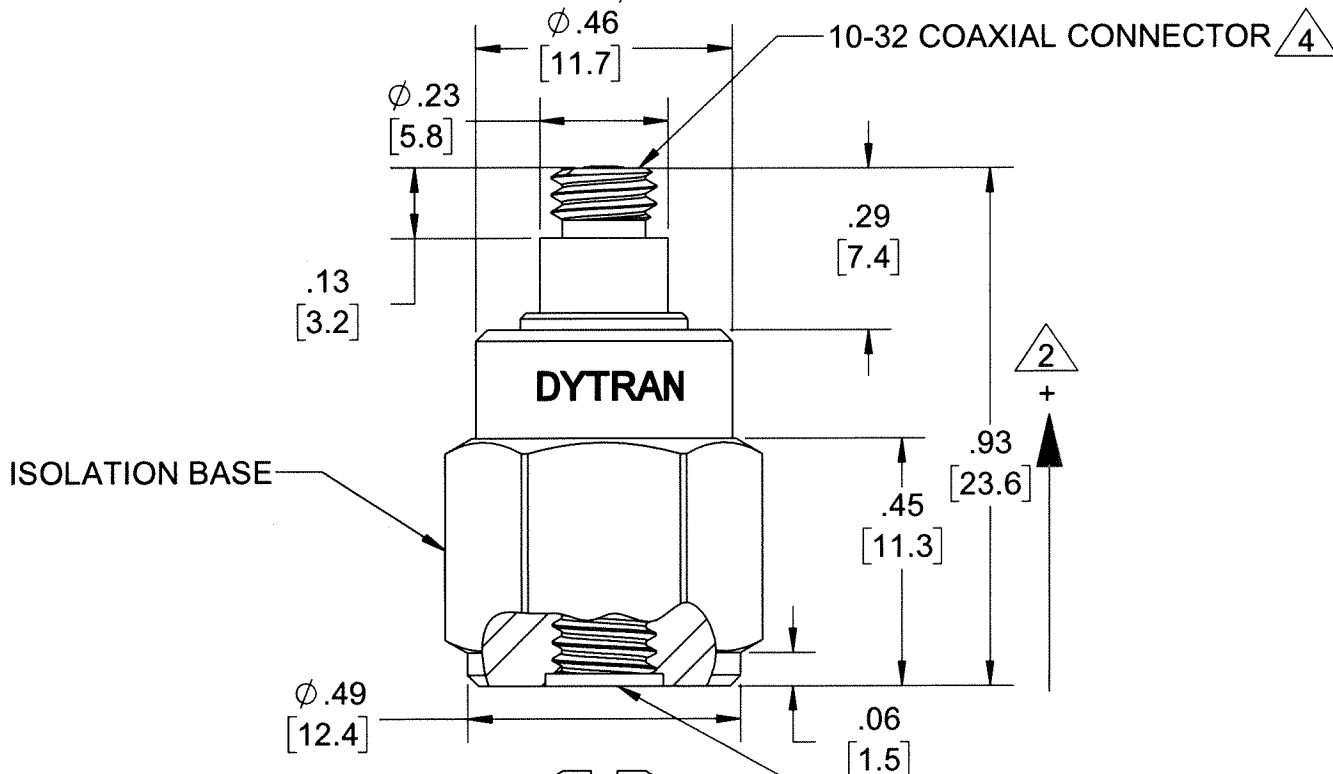
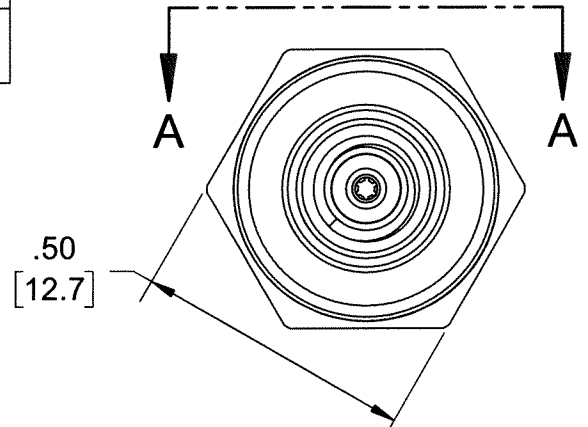
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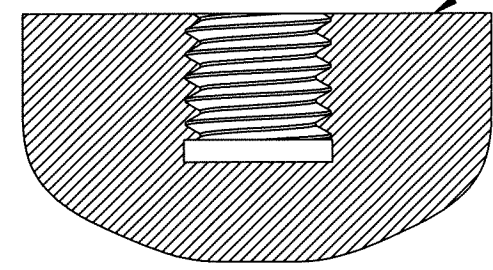
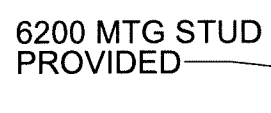
MODEL	SENSITIVITY
3056D1T	10 mV/g
3056D2T	100 mV/g
3056D3T	500 mV/g
3056D4T	20 mV/g
3056D5T	50 mV/g
3056D6T	200 mV/g
3056D7T	1 mV/g
3056D8T	5 mV/g

REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	11394	INITIAL RELEASE	RA 11/06/14	EM	DV
B	11983	ADDED 3056D7T & D8T	LA 05/18/15	RT	DV
C	12426	ADDED VIEW A-A, REMOVED ISOMETRIC VIEW	RA, 01/06/16	EM	LN
D	14310	ZONE B3 10-32 UNF WAS: 1032 UNC	RA, 07/10/18	W	MH



VIEW A-A  
ROTATED 180°



**MOUNTING SURFACE HOLE PREPARATION:**  
SELECT SURFACE FLAT TO .001 TIR  
TAP 10-32 UNF-2B X .200 MIN THD DEPTH

4 MATES WITH DYTRAN 6010AXX OR 6011AXX CABLE (XX=LENGTH IS FEET)

3. WEIGHT: 10 GRAMS (APPROX)

2 ARROW INDICATES ACCELERATION DIRECTION FOR POSITIVE OUTPUT.

1. MATERIAL: TITANIUM ALLOY

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.

ALL MACHINED SURFACES:  $\sqrt{63}$   
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.  
TOLERANCES ARE:

DECIMALS	METRIC	ANGLES
.XX ±.03	X ± 0.8	±1°
.XXX ±.010	.XX ±0.25	

APPROVALS		DATE
ORIG	RA	10/29/14
CHK	EM	12/12/14
APP	DV	12/17/14

DO NOT SCALE DRAWING

**DYTRAN INSTRUMENTS, INC.** Chatsworth, CA

**MASTER ONLY IF IN RED**

TITLE: **OUTLINE/INSTALLATION, MODEL 3056DXT**

SIZE <b>B</b>	CAGE CODE <b>2W033</b>	DWG NO <b>127-3056DT</b>	REV <b>D</b>
SCALE: 3:1	PART NO:	SHEET 1 OF 1	

	<b>IEPE ACCELEROMETER</b>	REV G, ECN 15589, 02/10/20
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- HERMETICALLY SEALED
- BASE ISOLATED
- TEDS

**PHYSICAL**

Weight  
Connector  
Mounting Provision  
Material, Housing/Connector  
Sensing Element  
Element Style

ENGLISH		SI	
Weight	0.35 oz	Weight	10 grams
Connector	10-32	Connector	10-32
Mounting Provision	10-32 X .150 ↓	Mounting Provision	10-32 X .150 ↓
Material, Housing/Connector	Titanium	Material, Housing/Connector	Titanium
Sensing Element	Ceramic	Sensing Element	Ceramic
Element Style	Planar Shear	Element Style	Planar Shear

**PERFORMANCE**

Sensitivity, ±5% [1]  
Range for ± 5 Volts Output  
Frequency Response, ±5%  
Frequency Response, ±10%  
Resonant Frequency  
Broad Band Resolution  
Linearity [2]  
Maximum Transverse Sensitivity  
Strain Sensitivity @ 250µε

Sensitivity, ±5% [1]	100 mV/G	Sensitivity, ±5% [1]	10.2 mV/m/s <sup>2</sup>
Range for ± 5 Volts Output	50 G peak	Range for ± 5 Volts Output	491 m/s <sup>2</sup>
Frequency Response, ±5%	1 to 7,000 Hz	Frequency Response, ±5%	1 to 7,000 Hz
Frequency Response, ±10%	1 to 10,000 Hz	Frequency Response, ±10%	1 to 10,000 Hz
Resonant Frequency	> 36 kHz	Resonant Frequency	> 36 kHz
Broad Band Resolution	0.0004 G rms	Broad Band Resolution	0.0039 m/s <sup>2</sup> rms
Linearity [2]	±1 % F.S.	Linearity [2]	±1 % F.S.
Maximum Transverse Sensitivity	5 %	Maximum Transverse Sensitivity	5 %
Strain Sensitivity @ 250µε	0.001 G/µε	Strain Sensitivity @ 250µε	0.01 m/s <sup>2</sup> /µε

**ENVIRONMENTAL**

Maximum Vibration  
Maximum Shock  
Operating Temperature Range  
TEDS Operating Temperature  
Seal

Maximum Vibration	400 G peak	Maximum Vibration	3924 m/s <sup>2</sup> peak
Maximum Shock	2000 G peak	Maximum Shock	19620 m/s <sup>2</sup> peak
Operating Temperature Range	-60 to +250 °F	Operating Temperature Range	-51 to 121 °C
TEDS Operating Temperature	-40 to +185 °F	TEDS Operating Temperature	-40 to +85 °C
Seal	HERMETIC	Seal	HERMETIC

**ELECTRICAL**

Supply Current Range [3]  
Compliance Voltage Range  
Output Impedance, Typ  
Bias Voltage  
Discharge Time Constant  
Electrical Isolation  
TEDS

Supply Current Range [3]	2 to 20 mA	Supply Current Range [3]	2 to 20 mA
Compliance Voltage Range	+18 to +30 Volts	Compliance Voltage Range	+18 to +30 Volts
Output Impedance, Typ	100 Ω	Output Impedance, Typ	100 Ω
Bias Voltage	+9 to +13 VDC	Bias Voltage	+9 to +13 VDC
Discharge Time Constant	.5 to 1.5 Sec	Discharge Time Constant	.5 to 1.5 Sec
Electrical Isolation	10 GΩ,min	Electrical Isolation	10 GΩ,min
TEDS	IEEE 1451.4	TEDS	IEEE 1451.4

**This family also includes:**

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)
3056D1T	10	1 to 10000	0.5 to 1.5	-60 to +250
3056D3T	500	1 to 10000	0.5 to 1.5	-60 to +225
3056D4T	20	1 to 10000	0.5 to 1.5	-60 to +250
3056D5T	50	1 to 10000	0.5 to 1.5	-60 to +250
3056D6T	200	1 to 10000	0.5 to 1.5	-60 to +225
3056D7T	1	1 to 10000	0.5 to 1.5	-60 to +250
3056D8T	5	1 to 10000	0.5 to 1.5	-60 to +250

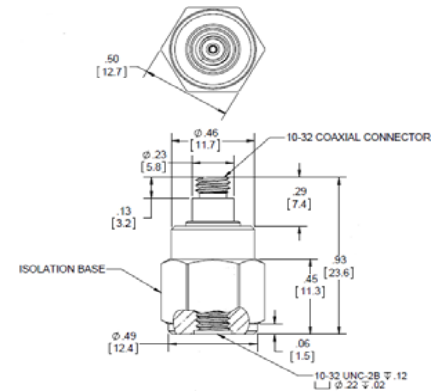
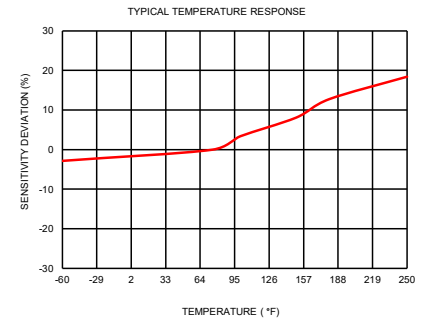
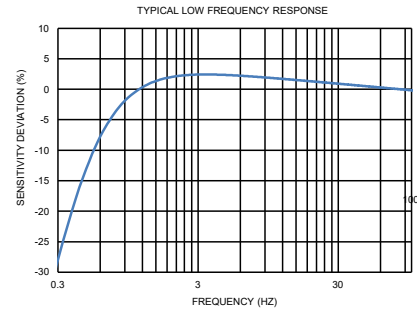
Refer to the performance specifications of the products in this family for detailed description

**Supplied Accessories:**

- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6200 mounting stud, 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] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
- [4] In the interest of constant product improvement, we reserve the rights to change the 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 127-3056DT for more information.

