PROPRIETARY AND CONFIDENTIAL

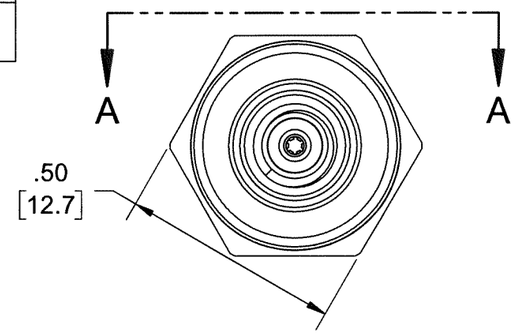
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DYTRAN INSTRUMENTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DYTRAN INSTRUMENTS INC. IS PROHIBITED

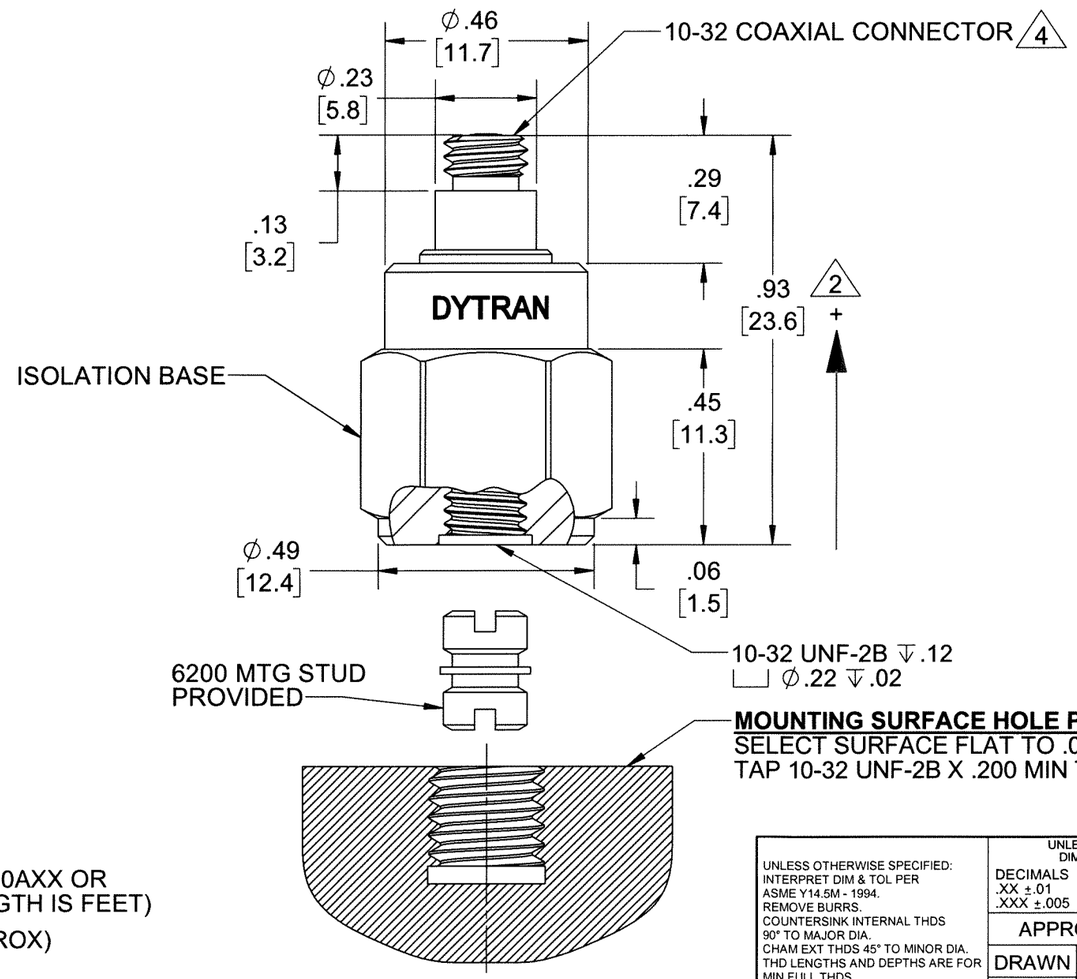
MODEL	SENSITIVITY
3056D1	10 mV/g
3056D2	100 mV/g
3056D3	500 mV/g
3056D4	20 mV/g
3056D5	50 mV/g
3056D6	200 mV/g
3056D7	1 mV/g
3056D8	5 mV/g

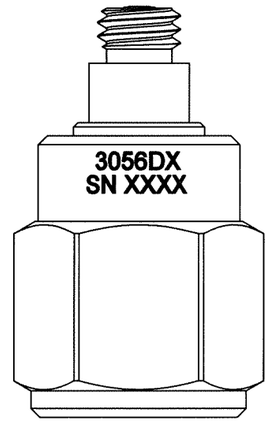
DWG NO 127-3056D SH 1 REV D

REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	11394	INITIAL RELEASE	RA, 11/06/14	EM	DV
B	11943	REVISED MARKING LOCATION, ADDED VIEW A-A	RA, 05/05/15	MH	LN
C	11983	3056D7 WAS: 5 mV/g, ADDED: 3056D8	LA 05/28/15	DV	MH
D	14310	ZONE B3 10-32 UNF WAS: 10-32 UNC	RA, 06/28/18	MH	







VIEW A-A
ROTATED 180°CW

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.
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 .XX ±.01 .XXX ±.005
ANGLES ±1°

APPROVALS		DATE
DRAWN	RA	10/29/14
DESIGN	RT	08/28/14
CHK	EM	12/12/14
APP	DV	12/17/14

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION USA

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

MASTER
ONLY IF IN RED

TITLE: OUTLINE/INSTALLATION, MODEL 3056D

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-3056D	D

SCALE: 3:1 PART NO: 3056D SHEET 1 OF 1

172-0136 REV B

Model Number	PERFORMANCE SPECIFICATIONS	DOC NO
3056D2		PS3056D2
	IEPE ACCELEROMETER	REV J, ECN 15637, 03/17/20

- **HERMETICALLY SEALED**
- **BASE ISOLATED**

This family also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)
3056D1	10	1 to 10000	0.5 to 1.5	-67 to +250
3056D3	500	1 to 10000	0.5 to 1.5	-67 to +225
3056D4	20	1 to 10000	0.5 to 1.5	-67 to +250
3056D5	50	1 to 10000	0.5 to 1.5	-67 to +250
3056D6	200	1 to 10000	0.5 to 1.5	-67 to +225
3056D7	1	1 to 10000	0.5 to 1.5	-67 to +250
3056D8	5	1 to 10000	0.5 to 1.5	-67 to +250

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

		ENGLISH		SI	
PHYSICAL					
Weight		0.35	oz	10	grams
Connector	Type	10-32		10-32	
Mounting Provision	Tapped Hole	10-32 X .150 ↓		10-32 X .150 ↓	
Material, Housing/Connector		Titanium		Titanium	
Sensing Element		Ceramic		Ceramic	
Element Style		Planar Shear		Planar Shear	
PERFORMANCE					
Sensitivity, ±5% [1]		100	mV/G	10.2	mV/m/s^2
Range for ± 5 Volts Output		50	G peak	491	m/s^2
Frequency Response, ±5%		1 to 7,000	Hz	1 to 7,000	Hz
Frequency Response, ±10%		1 to 10,000	Hz	1 to 10,000	Hz
Resonant Frequency		> 36	kHz	> 36	kHz
Broad Band Resolution		0.0004	G rms	0.004	m/s^2 rms
Linearity [2]		±1	% F.S.	±1	% F.S.
Maximum Transverse Sensitivity		5	%	5	%
Strain Sensitivity @ 250με		0.001	G/με	0.01	m/s^2/με
ENVIRONMENTAL					
Maximum Vibration		60	G peak	589	m/s^2 peak
Maximum Shock		2000	G peak	19620	m/s^2 peak
Temperature Range		-67 to 250	°F	-55 to 121	°C
Seal		HERMETIC		HERMETIC	
ELECTRICAL					
Supply Current Range [3]		2 to 20	mA	2 to 20	mA
Compliance Voltage Range		+18 to +30	Volts	+18 to +30	Volts
Output Impedence,Typ		100	Ω	100	Ω
Bias Voltage		+9 to +13	VDC	+9 to +13	VDC
Discharge Time Constant		.5 to 1.5	Sec	.5 to 1.5	Sec
Electrical Isolation		10	GΩ,min	10	GΩ,min

Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)

2) Model 6200 mounting stud, QTY 1

Notes:

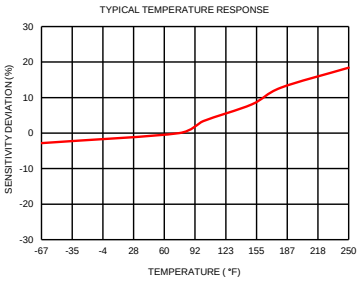
[1] Measured at 100Hz, 1 Grms per ISA RP 37.2.

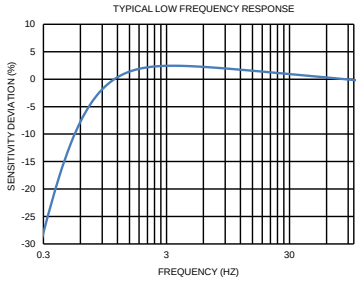
[2] Measured using zero-based straight line method, % of F.S. or any lesser range.

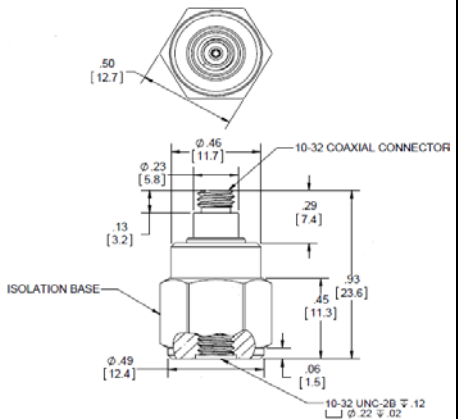
[3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.

[4] In the interest of constant product improvement, we reserve the right to change specifications without notice.

[5] 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 127-3056D for more information.

21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880 www.dytran.com
For permission to reprint this content, please contact info@dytran.com