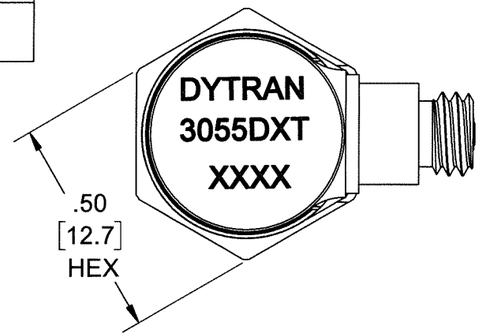
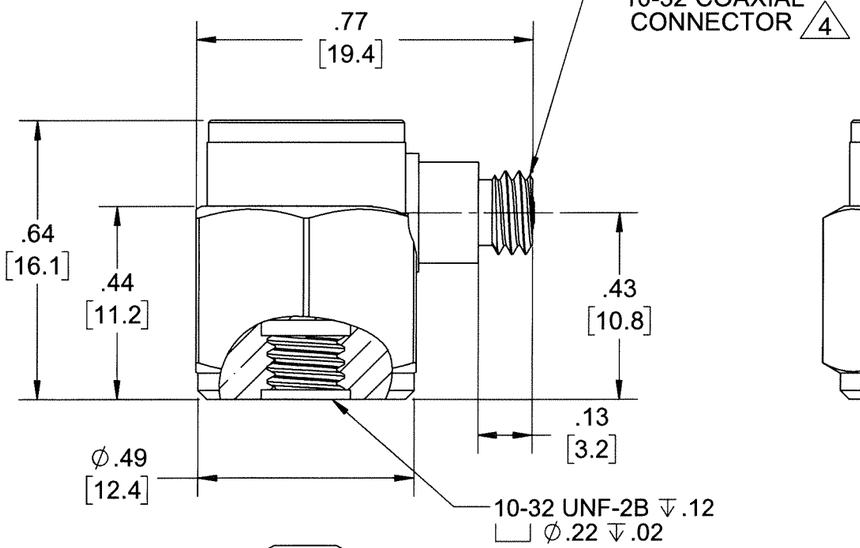
MODEL	SENSITIVITY
3055D1T	10 mV/g
3055D2T	100 mV/g
3055D3T	500 mV/g
3055D4T	50 mV/g
3055D5T	20 mV/g
3055D6T	200 mV/g

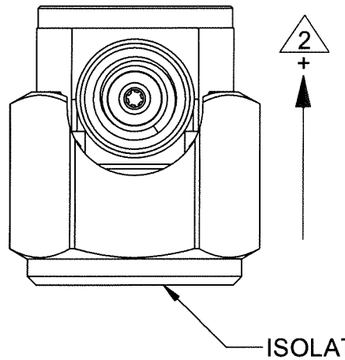
DWG NO 127-3055DT SH 1 REV C

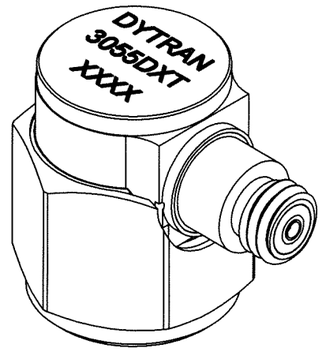
REVISIONS

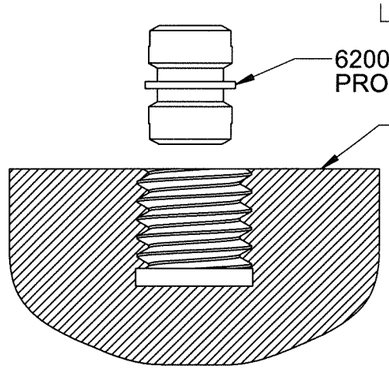
REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	11394	INITIAL RELEASE	RA, 11/06/14	EM	DV
B	11983	ADDED 3055D5T	LA 05/18/15	RT	DV
C	14310	ZONE B3 10-32 UNF WAS 10-32 UNC	DA, 6/27/18		











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

3. WEIGHT: 10 GRAMS, MAX.

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.

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

APPROVALS		DATE
ORIG	RA	05/29/14
CHK	EM	11/06/14
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, ACCEL, ISOLATED, 10 MV/G, SIDE 10-32 CONN

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-3055DT	C

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

172-0186 REV B

Model Number	PERFORMANCE SPECIFICATIONS	DOC NO
3055D1T		PS3055D1T
	IEPE ACCELEROMETER	REV G, ECN 13042, 10/31/16

- **HERMETICALLY SEALED**
- **BASE ISOLATED**
- **IDEAL LOW FREQUENCY RESPONSE**
- **TEDS**

This family also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)
3055D2T	100	1 to 10000	0.5 to 1.5	-60 to +250
3055D3T	500	1 to 10000	0.5 to 1.5	-60 to +225
3055D4T	50	1 to 10000	0.5 to 1.5	-60 to +250
3055D5T	20	1 to 10000	0.5 to 1.5	-60 to +250
3055D6T	200	1 to 10000	0.5 to 1.5	-60 to +225

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]		10	mV/g	1	mV/m/s^2
Range for ± 5 Volts Output		500	g	4905	m/s^2
Frequency Response, ± 5%		1 to 5000	Hz	1 to 5000	Hz
Frequency Response, ± 10%		1 to 10000	Hz	1 to 10000	Hz
Resonant Frequency		> 36	kHz	> 36	kHz
Broad Band Resolution		0.0030	Grms	0.029	m/s^2 rms
Spectral Noise	1Hz	340	µGrms/√(Hz)	3335	µm/s^2 rms/√(Hz)
	10Hz	130	µGrms/√(Hz)	1275	µm/s^2 rms/√(Hz)
	100Hz	36	µGrms/√(Hz)	353	µm/s^2 rms/√(Hz)
	1000Hz	21	µGrms/√(Hz)	206	µm/s^2 rms/√(Hz)
	10000Hz	12	µGrms/√(Hz)	117.7	µm/s^2 rms/√(Hz)
Linearity [2]		± 1	% F.S.	± 1	% F.S.
Maximum Transverse sensitivity		5	%	5	%
Strain Sensitivity @ 250µε		0.002	g/µε	0.02	m/s^2/µε
ENVIRONMENTAL					
Maximum Vibration		600	Gpeak	5886	m/s^2 peak
Maximum Shock		5000	Gpeak	49050	m/s^2 peak
Temperature Range (<3% Sensitivity Deviation)		+50 to +100	°F	10 to 38	°C
Operating Temperature Range		-60 to +250	°F	-51 to 121	°C
TEDS Operating Temperature		-40 to +185	°F	-40 to +85	°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		11 to 13	VDC	11 to 13	VDC
Discharge Time Constant		0.5 to 1.5	Sec	0.5 to 1.5	Sec
Electrical Isolation		10	GΩ,min	10	GΩ,min
TEDS		IEEE 1451.4		IEEE 1451.4	

Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)

2) Model 6200 mounting stud, qty 1

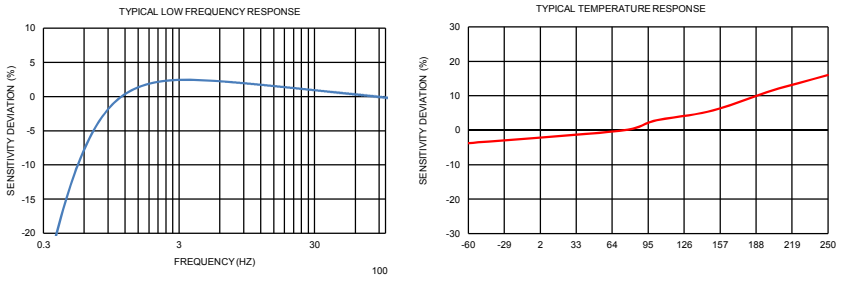
Notes:

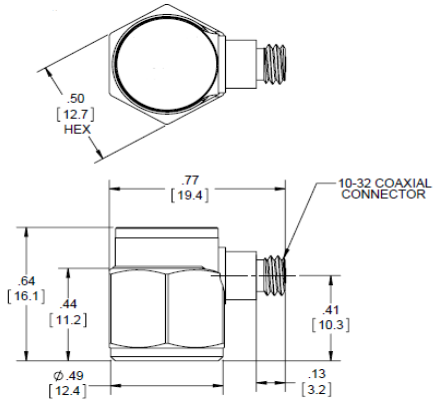
[1] Measured at 100Hz, 1 Grms per ISA RP 37.2.

[2] Measure 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.





Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3055DT for more information.

21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880 www.dytran.com