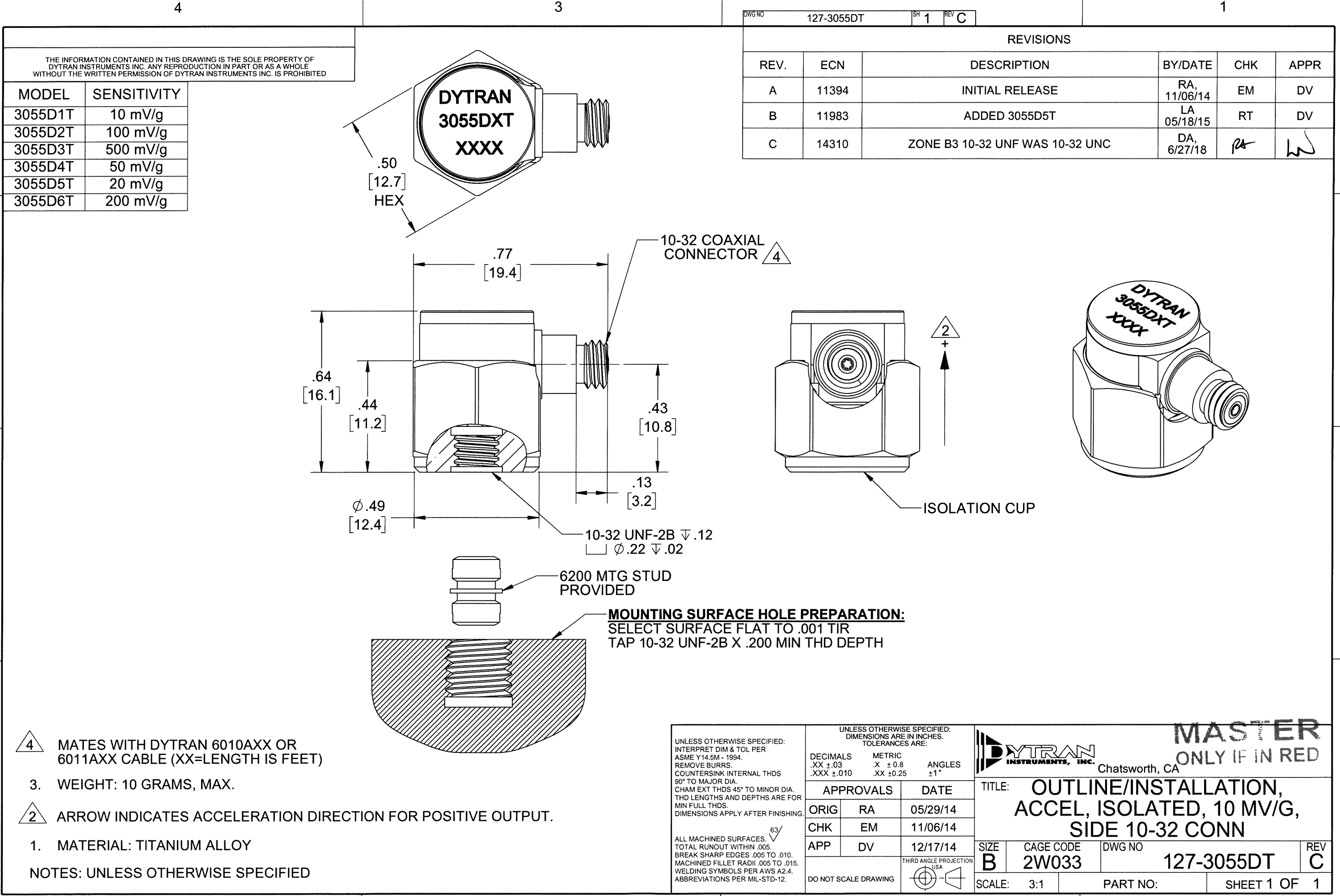




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MODEL	SENSITIVITY
3055D1T	10 mV/g
3055D2T	100 mV/g
3055D3T	500 mV/g
3055D4T	50 mV/g
3055D5T	20 mV/g
3055D6T	200 mV/g

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	PA	W

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.

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

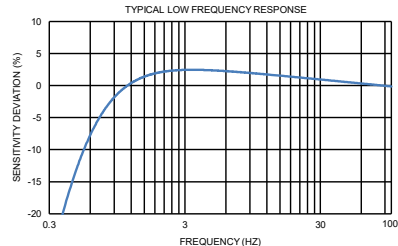
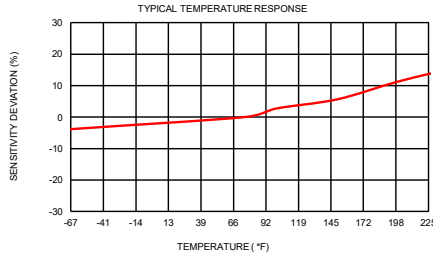
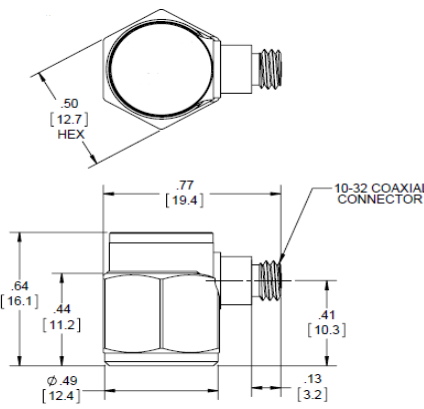
DYTRAN
INSTRUMENTS, INC.
Chatsworth, CA

MASTER
ONLY IF IN RED

TITLE: **OUTLINE/INSTALLATION,
ACCEL, ISOLATED, 10 MV/G,
SIDE 10-32 CONN**

SIZE B	CAGE CODE 2W033	DWG NO 127-3055DT	REV C
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SCALE: 3:1 PART NO: SHEET 1 OF 1

Model Number		PERFORMANCE SPECIFICATIONS				DOC NO																																																							
3055D2T						PS3055D2T																																																							
		IEPE ACCELEROMETER				REV H, ECN 16259, 07/20/21																																																							
		• HERMETICALLY SEALED • BASE ISOLATED • IDEAL LOW FREQUENCY RESPONSE • TEDS				This family also includes: <table><tr><th>Model</th><th>Sensitivity (mV/g)</th><th>Frequency Response (Hz)</th><th>Time Constant (Sec)</th><th>Operating Temp (°F)</th></tr><tr><td>3055D1T</td><td>10</td><td>1 to 10000</td><td>0.5 to 1.5</td><td>-60 to +250</td></tr><tr><td>3055D3T</td><td>500</td><td>1 to 10000</td><td>0.5 to 1.5</td><td>-60 to +225</td></tr><tr><td>3055D4T</td><td>50</td><td>1 to 10000</td><td>0.5 to 1.5</td><td>-60 to +250</td></tr><tr><td>3055D5T</td><td>20</td><td>1 to 10000</td><td>0.5 to 1.5</td><td>-60 to +250</td></tr><tr><td>3055D6T</td><td>200</td><td>1 to 10000</td><td>0.5 to 1.5</td><td>-60 to +225</td></tr><tr><td>3055D11T</td><td>1</td><td>1 to 10000</td><td>0.5 to 1.5</td><td>-60 to +250</td></tr><tr><td>3055D12T</td><td>5</td><td>1 to 10000</td><td>0.5 to 1.5</td><td>-60 to +250</td></tr></table>		Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)	3055D1T	10	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	3055D11T	1	1 to 10000	0.5 to 1.5	-60 to +250	3055D12T	5	1 to 10000	0.5 to 1.5	-60 to +250														
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PHYSICAL Weight Connector Mounting Provision Material, Housing/Connector Sensing Element Element Style		<table><tr><th>ENGLISH</th><th>SI</th></tr><tr><td>0.35 oz</td><td>10 grams</td></tr><tr><td>10-32</td><td>10-32</td></tr><tr><td>10-32 X .150 ↓</td><td>10-32 X .150 ↓</td></tr><tr><td>Titanium</td><td>Titanium</td></tr><tr><td>Ceramic</td><td>Ceramic</td></tr><tr><td>Planar Shear</td><td>Planar Shear</td></tr></table>		ENGLISH	SI	0.35 oz	10 grams	10-32	10-32	10-32 X .150 ↓	10-32 X .150 ↓	Titanium	Titanium	Ceramic	Ceramic	Planar Shear	Planar Shear	Supplied Accessories: 1) Accredited calibration certificate (ISO 17025) 2) Model 6200 mounting stud, qty 1 Notes: [1] Measured at 100Hz, 1 g RMS 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. 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 over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. [5] All specifications are at room temperature unless otherwise specified.																																											
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PERFORMANCE Sensitivity, ± 5% [1] [5] Range for ± 5 Volts Output Frequency Response, ± 10% Resonant Frequency Broad Band Resolution Spectral Noise Linearity [2] Maximum Transverse sensitivity Strain Sensitivity @ 250µε		<table><tr><td>100</td><td>mV/g</td><td>10</td><td>mV/m/s²</td></tr><tr><td>50</td><td>g pk</td><td>491</td><td>m/s² pk</td></tr><tr><td>.54 to 10000</td><td>Hz</td><td>.54 to 10000</td><td>Hz</td></tr><tr><td>> 36</td><td>kHz</td><td>> 36</td><td>kHz</td></tr><tr><td>0.0004</td><td>g RMS</td><td>0.004</td><td>m/s² RMS</td></tr><tr><td>.1Hz</td><td>µg RMS/√(Hz)</td><td>239</td><td>µm/s² RMS/√(Hz)</td></tr><tr><td>1Hz</td><td>µg RMS/√(Hz)</td><td>351</td><td>µm/s² RMS/√(Hz)</td></tr><tr><td>10Hz</td><td>µg RMS/√(Hz)</td><td>136</td><td>µm/s² RMS/√(Hz)</td></tr><tr><td>100Hz</td><td>µg RMS/√(Hz)</td><td>35</td><td>µm/s² RMS/√(Hz)</td></tr><tr><td>1000Hz</td><td>µg RMS/√(Hz)</td><td>12</td><td>µm/s² RMS/√(Hz)</td></tr><tr><td>10000Hz</td><td>µg RMS/√(Hz)</td><td>8</td><td>µm/s² RMS/√(Hz)</td></tr><tr><td>± 1</td><td>% F.S.</td><td>± 1</td><td>% F.S.</td></tr><tr><td>5</td><td>%</td><td>5</td><td>%</td></tr><tr><td>0.002</td><td>g/µε</td><td>0.02</td><td>m/s²/µε</td></tr></table>		100	mV/g	10	mV/m/s ²	50	g pk	491	m/s ² pk	.54 to 10000	Hz	.54 to 10000	Hz	> 36	kHz	> 36	kHz	0.0004	g RMS	0.004	m/s ² RMS	.1Hz	µg RMS/√(Hz)	239	µm/s ² RMS/√(Hz)	1Hz	µg RMS/√(Hz)	351	µm/s ² RMS/√(Hz)	10Hz	µg RMS/√(Hz)	136	µm/s ² RMS/√(Hz)	100Hz	µg RMS/√(Hz)	35	µm/s ² RMS/√(Hz)	1000Hz	µg RMS/√(Hz)	12	µm/s ² RMS/√(Hz)	10000Hz	µg RMS/√(Hz)	8	µm/s ² RMS/√(Hz)	± 1	% F.S.	± 1	% F.S.	5	%	5	%	0.002	g/µε	0.02	m/s ² /µε	 	
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ENVIRONMENTAL Maximum Shock Operating Temperature Range TEDS Operating Temperature Seal		<table><tr><td>2000</td><td>g pk</td><td>19620</td><td>m/s² pk</td></tr><tr><td>-67 to +225</td><td>°F</td><td>-51 to +107</td><td>°C</td></tr><tr><td>-40 to +185</td><td>°F</td><td>-40 to +85</td><td>°C</td></tr><tr><td>Hermetic</td><td></td><td>Hermetic</td><td></td></tr></table>		2000	g pk	19620	m/s ² pk	-67 to +225	°F	-51 to +107	°C	-40 to +185	°F	-40 to +85	°C	Hermetic		Hermetic																																											
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ELECTRICAL Supply Current Range [3] Compliance Voltage Range Output Impedence, Typ Bias Voltage Discharge Time Constant Electrical Isolation TEDS		<table><tr><td>2 to 20</td><td>mA</td><td>2 to 20</td><td>mA</td></tr><tr><td>18 to +30</td><td>Volts</td><td>18 to +30</td><td>Volts</td></tr><tr><td>100</td><td>Ω</td><td>100</td><td>Ω</td></tr><tr><td>11 to 13</td><td>VDC</td><td>11 to 13</td><td>VDC</td></tr><tr><td>0.5 to 1.5</td><td>Sec</td><td>0.5 to 1.5</td><td>Sec</td></tr><tr><td>10</td><td>GΩ,min</td><td>10</td><td>GΩ,min</td></tr><tr><td>IEEE 1451.4</td><td></td><td>IEEE 1451.4</td><td></td></tr></table>		2 to 20	mA	2 to 20	mA	18 to +30	Volts	18 to +30	Volts	100	Ω	100	Ω	11 to 13	VDC	11 to 13	VDC	0.5 to 1.5	Sec	0.5 to 1.5	Sec	10	GΩ,min	10	GΩ,min	IEEE 1451.4		IEEE 1451.4		Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3055DT for more information.																													
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