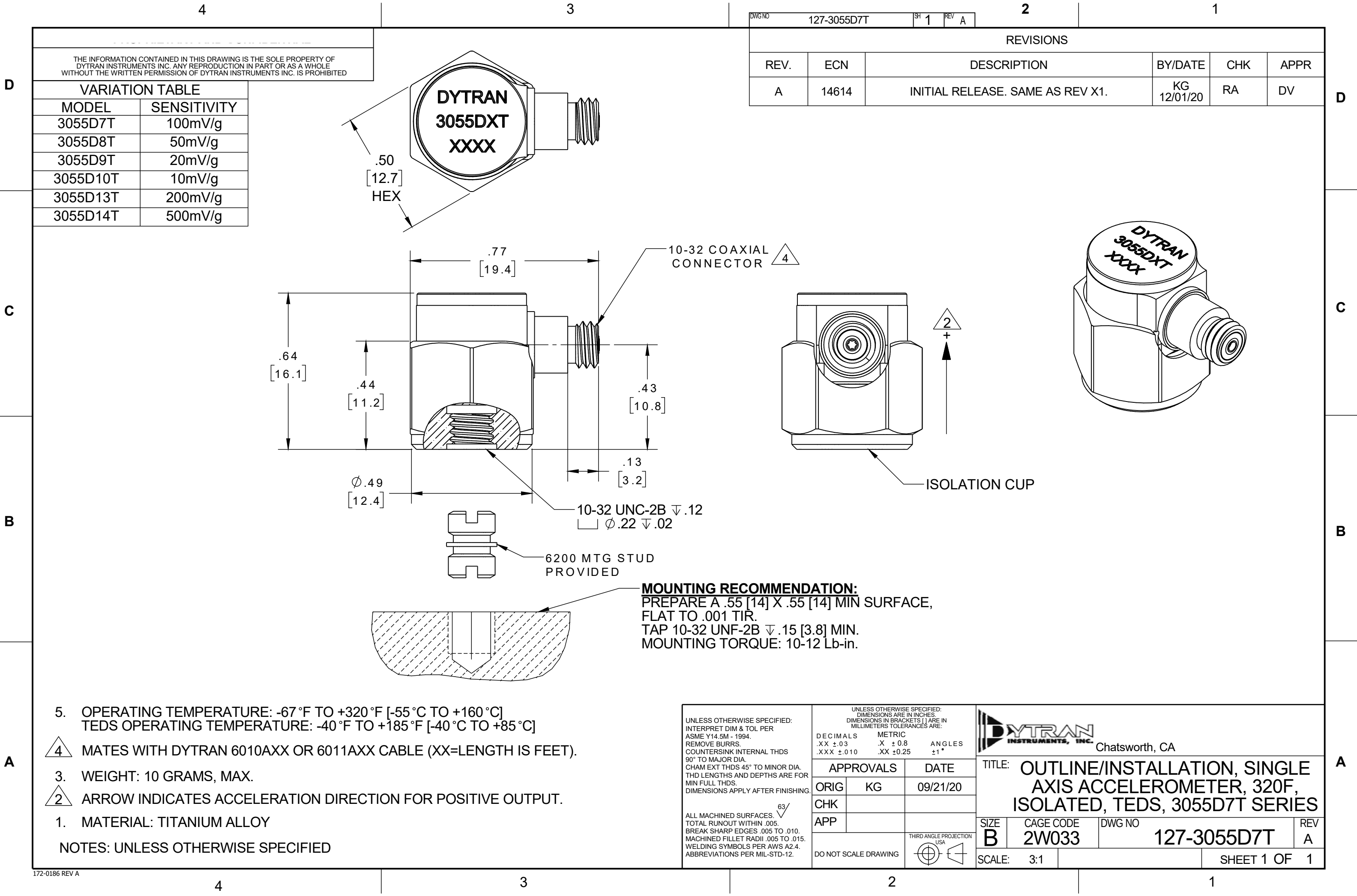




THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
DYTRAN INSTRUMENTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF DYTRAN INSTRUMENTS INC. IS PROHIBITED

VARIATION TABLE	
MODEL	SENSITIVITY
3055D7T	100mV/g
3055D8T	50mV/g
3055D9T	20mV/g
3055D10T	10mV/g
3055D13T	200mV/g
3055D14T	500mV/g

DWGNO		127-3055D7T		SH	1	REV	A	2		1	
REVISIONS											
REV.	ECN	DESCRIPTION					BY/DATE	CHK	APPR		
A	14614	INITIAL RELEASE. SAME AS REV X1.					KG 12/01/20	RA	DV		

5. OPERATING TEMPERATURE: -67°F TO +320°F [-55°C TO +160°C]
TEDS OPERATING TEMPERATURE: -40°F TO +185°F [-40°C TO +85°C]
- 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

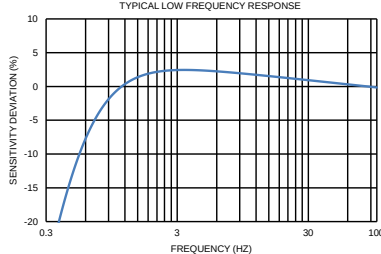
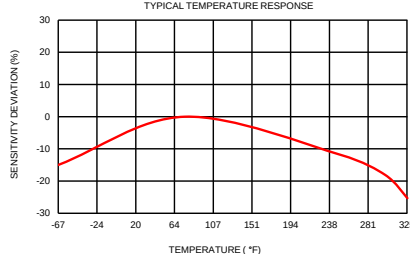
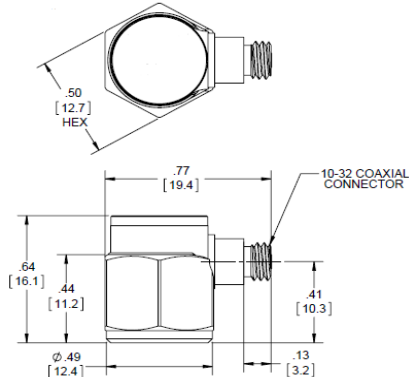
MOUNTING RECOMMENDATION:
PREPARE A .55 [14] X .55 [14] MIN SURFACE,
FLAT TO .001 TIR.
TAP 10-32 UNF-2B ∇ .15 [3.8] MIN.
MOUNTING TORQUE: 10-12 Lb-in.

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. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS TOLERANCES ARE:		
DECIMALS	METRIC	ANGLES
.XX $\pm$.03	.X $\pm$ 0.8	$\pm$ 1°
.XXX $\pm$.010	.XX $\pm$ 0.25	
APPROVALS		DATE
ORIG	KG	09/21/20
CHK		
APP		
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION USA

 Chatsworth, CA		TITLE: OUTLINE/INSTALLATION, SINGLE AXIS ACCELEROMETER, 320F, ISOLATED, TEDS, 3055D7T SERIES			
SIZE B	CAGE CODE 2W033	DWG NO 127-3055D7T	REV A		
SCALE: 3:1				SHEET 1 OF 1	

Model Number		PERFORMANCE SPECIFICATIONS				DOC NO	
3055D14T						PS3055D14T	
		IEPE ACCELEROMETER				REV C, ECN 16427, 12/09/21	
		• -67 °F TO +325°F OPERATION • BASE ISOLATED • IDEAL LOW FREQUENCY RESPONSE • TEDS FEATURE					
		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% [2]		500	mV/g	51	mV/m/s ²		
Range for ± 5 Volts Output		10	g pk	98	m/s ² pk		
Frequency Response, ± 5%		0.71 to 5000	Hz	0.71 to 5000	Hz		
Frequency Response, ± 10%		0.54 to 10000	Hz	0.54 to 10000	Hz		
Resonant Frequency		> 36	kHz	> 36	kHz		
Broad Band Resolution		0.00015	g RMS	0.001	m/s ² RMS		
Linearity [3]		±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 Shock		5000	g pk	49050	m/s ² pk		
Temperature Range		-67 to +325	°F	-55 to +163	°C		
TEDS Operating Temperature Range		-40 to +185	°F	-40 to +85	°C		
Seal		Hermetic		Hermetic			
ELECTRICAL							
Supply Current Range [4]		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		+10 to +13	VDC	+10 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 Feature		IEEE 1451.4		IEEE 1451.4			
		This family also includes:					
		Model	Sensitivity (mV/g)	Frequency Response, ±10% (Hz)	Time Constant (Sec)	Operating Temp (°F)	
		3055D7T	100	1 to 10000	0.5 to 1.5	-67 to +325	
		3055D8T	50	1 to 10000	0.5 to 1.5	-67 to +325	
		3055D9T	20	1 to 10000	0.5 to 1.5	-67 to +325	
		3055D10T	10	1 to 10000	0.5 to 1.5	-67 to +325	
		3055D13T	200	1 to 10000	0.5 to 1.5	-67 to +325	
		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] All specifications are at room temperature unless otherwise specified.					
		[2] Measured at 100Hz, 1 g RMS per ISA RP 37.2.					
		[3] Measure 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 charge amplifier.					
		[5] 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.					
		 					
							
		Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3055D7T for more information.					



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.698.0362 www.dytran.com
For permission to reprint this content, please contact info@dytran.com



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.698.0362 www.dytran.com
 For permission to reprint this content, please contact info@dytran.com