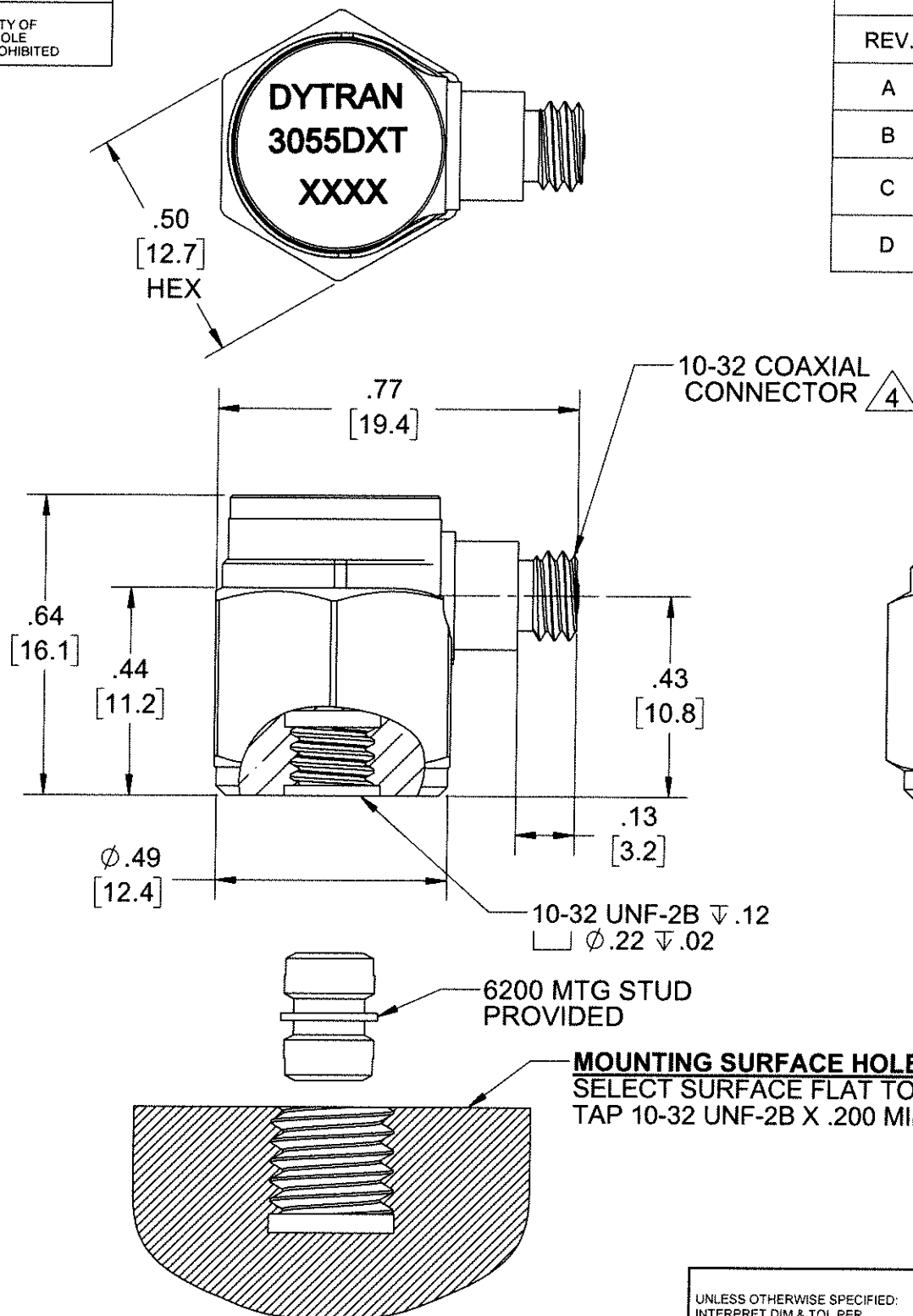


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MODEL	SENSITIVITY
3055D1T	10 mV/g
3055D2T	100 mV/g
3055D3T	500 mV/g
3055D4T	50 mV/g
3055D5T	20 mV/g
3055D6T	200 mV/g
3055D11T	1 mV/g
3055D12T	5 mV/g



DWG NO 127-3055DT SH 1 REV D

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	RA	LN
D	14550	INITIAL RELEASE OF 3055D11T & 3055D12T, SAME AS C1	DP 10/02/18	RA	W

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

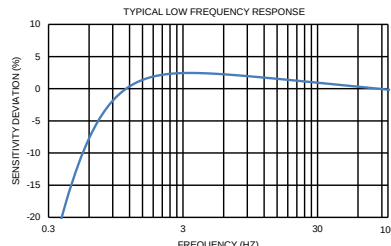
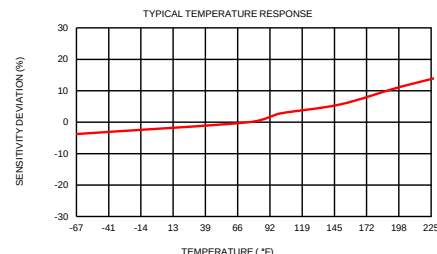
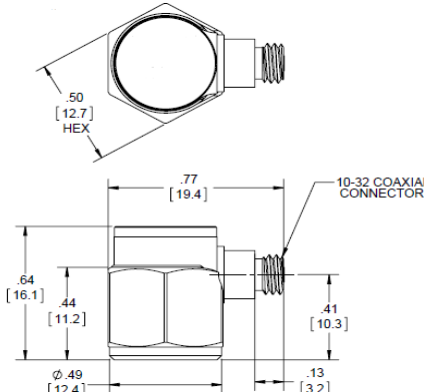
3. WEIGHT: 10 GRAMS, MAX.

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.			UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS METRIC ANGLES .XX $\pm$.03 X $\pm$ 0.8 $\pm$ 1° .XXX $\pm$.010 XX $\pm$ 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		
			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.		
			DYTRAN MASTER INSTRUMENTS, INC. Chatsworth, CA ONLY IN RED		
TITLE: OUTLINE/INSTALLATION, ACCEL, ISOLATED, 10 MV/G, SIDE 10-32 CONN			SIZE B	CAGE CODE 2W033	DWG NO 127-3055DT
SCALE: 3:1			PART NO:	SHEET 1 OF 1	
			REV D		

Model Number		PERFORMANCE SPECIFICATIONS				DOC NO	
3055D4T						PS3055D4T	
		IEPE ACCELEROMETER				REV F, ECN 16090, 03/01/21	
		• HERMETICALLY SEALED • BASE ISOLATED • IDEAL LOW FREQUENCY RESPONSE • TEDS					
		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]		50	mV/g	5	mV/m/s ²		
Range for ± 5 Volts Output		100	g pk	981	m/s ² pk		
Frequency Response, ± 10%		1 to 10000	Hz	1 to 10000	Hz		
Resonant Frequency		> 36	kHz	> 36	kHz		
Broad Band Resolution		0.0010	g RMS	0.010	m/s ² RMS		
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 Shock		2000	g pk	19620	m/s ² pk		
Operating Temperature Range		-67 to +225	*F	-55 to +107	*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			
		This family also includes:					
		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	
		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	
		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	
		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 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.					
							
							
							
		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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