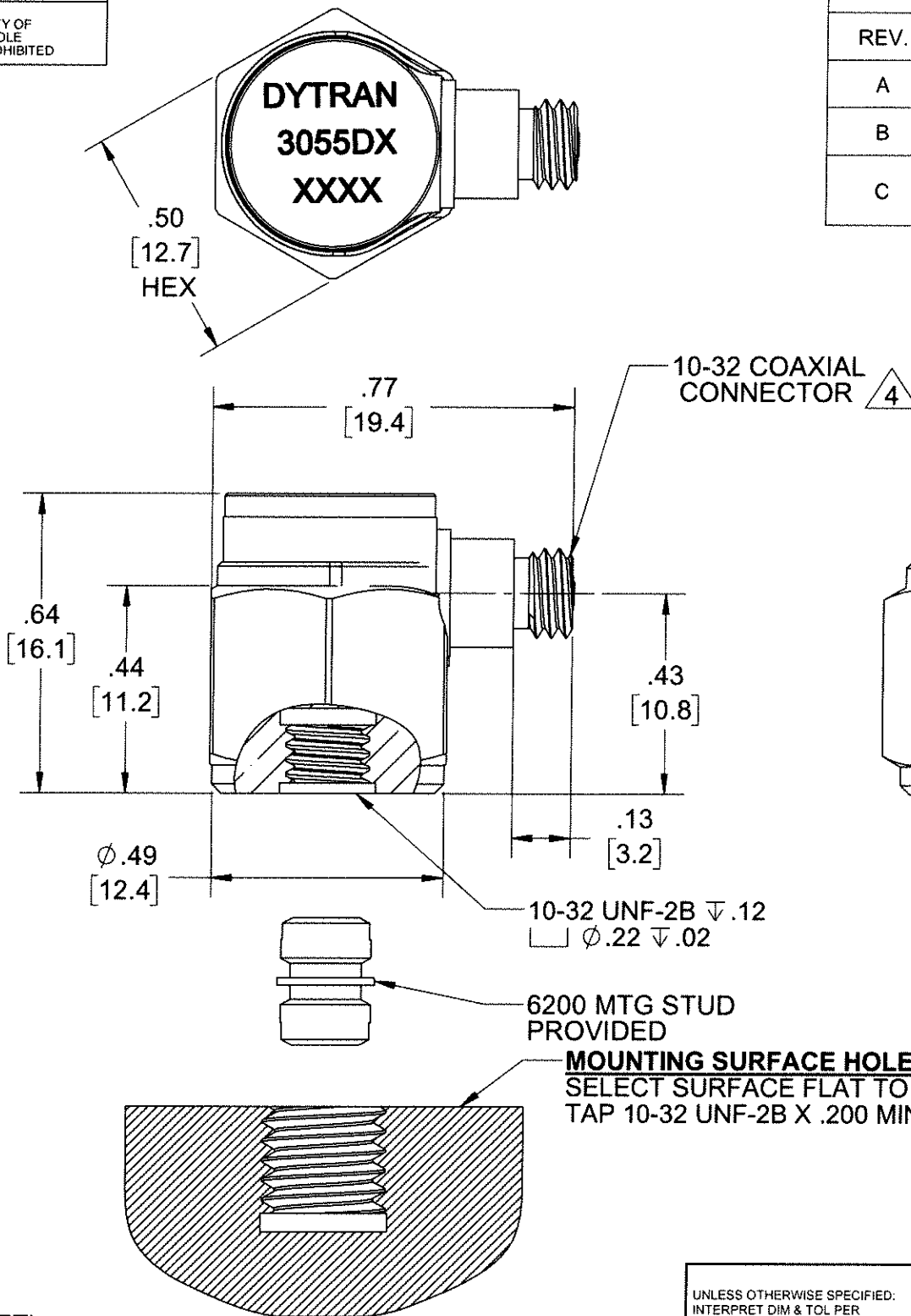


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MODEL	SENSITIVITY
3055D1	10 mV/g
3055D2	100 mV/g
3055D3	500 mV/g
3055D4	50 mV/g
3055D5	20 mV/G
3055D6	200 mV/g
3055D11	1 mV/g
3055D12	5 mV/g



DWG NO 127-3055D

REV C

REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	11394	INITIAL RELEASE	RA, 11/05/14	EM	DV
B	14310	ZONE B3 10-32 UNF WAS: 10-32 UNC	RA, 06/28/18	MH	LN
C	14550	INITIAL RELEASE OF 3055D11 & 3055D12, SAME AS B1	DP 10/02/18	RA	LN

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 .XX ± .01
XXX ± .005
ANGLES ± 1°

APPROVALS		DATE
DRAWN	RA	05/29/14
DESIGN	RA	01/23/14
CHK	EM	12/17/14
APP	DV	12/17/14

DO NOT SCALE DRAWING



DYTRAN MASTER
INSTRUMENTS, INC. ONLY IF IN RED
Chatsworth, CA

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

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

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

Model Number		PERFORMANCE SPECIFICATIONS				DOC NO	
3055D2		IEPE ACCELEROMETER				PS3055D2	
						REV F, ECN 16259, 07/20/21	
		• HERMETICALLY SEALED • BASE ISOLATED • IDEAL LOW FREQUENCY RESPONSE					
		ENGLISH		SI			
PHYSICAL							
Weight	Type	0.35	oz	10	grams		
Connector	Tapped Hole	10-32		10-32			
Mounting Provision		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] [5]		100	mV/g	10	mV/m/s ²		
Range for ± 5 Volts Output		50	g pk	491	m/s ² pk		
Frequency Response, ± 10%		.54 to 10000	Hz	.54 to 10000	Hz		
Resonant Frequency		> 36	kHz	> 36	kHz		
Broad Band Resolution		0.0004	g RMS	0.004	m/s ² RMS		
Sprectral Noise	.1Hz	24.38	µg RMS/√(Hz)	239	µm/s ² RMS/√(Hz)		
	1Hz	35.75	µg RMS/√(Hz)	351	µm/s ² RMS/√(Hz)		
	10Hz	13.89	µg RMS/√(Hz)	136	µm/s ² RMS/√(Hz)		
	100Hz	3.54	µg RMS/√(Hz)	35	µm/s ² RMS/√(Hz)		
	1000Hz	1.24	µg RMS/√(Hz)	12	µm/s ² RMS/√(Hz)		
	10000Hz	0.817	µg RMS/√(Hz)	8	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 Shock		2000	g pk	19620	m/s ² pk		
Temperature Range		-67 to +225	°F	-55 to +107	°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		
						This family also includes:	
						Model	
						Sensitivity (mV/g)	
						Frequency Response (Hz)	
						Time Constant (Sec)	
						Operating Temp (°F)	
						3055D1	
						10	
						1 to 10000	
						0.5 to 1.5	
						-67 to +250	
						3055D3	
						500	
						1 to 10000	
						0.5 to 1.5	
						-67 to +225	
						3055D4	
						50	
						1 to 10000	
						0.5 to 1.5	
						-67 to +250	
						3055D5	
						20	
						1 to 10000	
						0.5 to 1.5	
						-67 to +250	
						3055D6	
						200	
						1 to 10000	
						0.5 to 1.5	
						-67 to +225	
						3055D11	
						1	
						1 to 10000	
						0.5 to 1.5	
						-67 to +250	
						3055D12	
						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	
						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.	
						TYPICAL LOW FREQUENCY RESPONSE	
						SENSITIVITY DEVIATION (%)	
						FREQUENCY (Hz)	
						TYPICAL TEMPERATURE RESPONSE	
						SENSITIVITY DEVIATION (%)	
						TEMPERATURE (°F)	
						MECHANICAL DRAWING	
						.50 [12.7] HEX	
						.77 [19.4]	
						10-32 COAXIAL CONNECTOR	
						.64 [16.1]	
						.44 [11.2]	
						.41 [10.3]	
						.13 [3.2]	
						Ø .49 [12.4]	
						Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3055D for more information.	
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