

PROPRIETARY AND CONFIDENTIAL

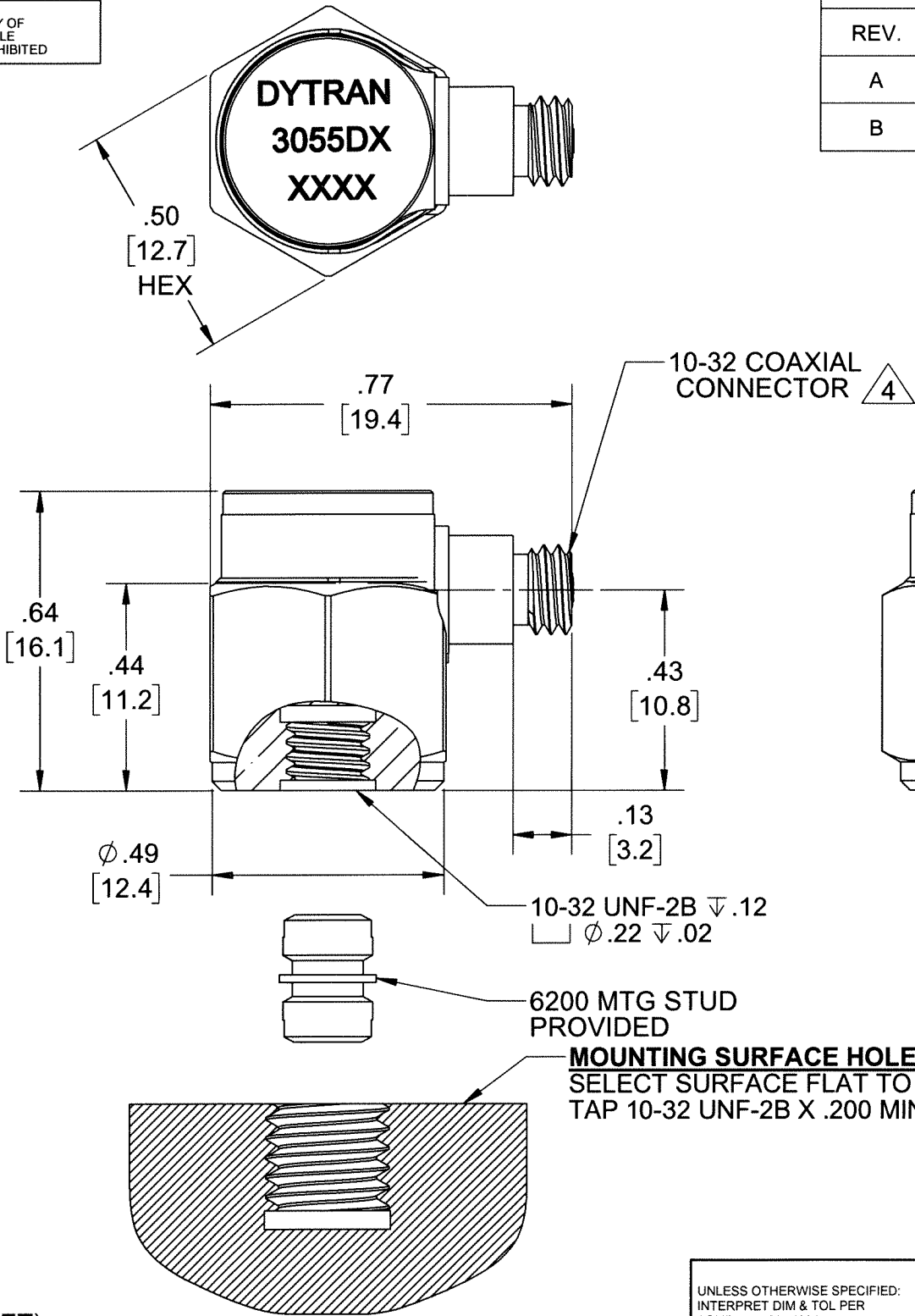
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MODEL	SENSITIVITY
3055D1	10 mV/g
3055D2	100 mV/g
3055D3	500 mV/g
3055D4	50 mV/g
3055D5	20 mV/G
3055D6	200 mV/g

DWG NO 127-3055D TSH 1 REV B

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	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

MOUNTING SURFACE HOLE PREPARATION:
SELECT SURFACE FLAT TO .001 TIR
TAP 10-32 UNF-2B X .200 MIN THD DEPTH

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.
DECIMALS TOLERANCES ARE: ANGLES
.XX ±.01
.XXX ±.005 ±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		THIRD ANGLE PROJECTION



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 127-3055D	REV B
SCALE: 3:1		PART NO:	SHEET 1 OF 1

Model Number		PERFORMANCE SPECIFICATIONS			DOC NO
3055D1		IEPE ACCELEROMETER			PS3055D1
					REV E, ECN 13042, 10/28/16



- HERMETICALLY SEALED
- BASE ISOLATED
- IDEAL LOW FREQUENCY RESPONSE

ENGLISH		SI	
Weight	0.35 oz	10	grams
Connector	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	

ENGLISH		SI	
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/v(Hz)
	10Hz	130	μGrms/v(Hz)
	100Hz	36	μGrms/v(Hz)
	1000Hz	21	μGrms/v(Hz)
	10000Hz	12	μGrms/v(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

ENGLISH		SI	
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
Temperature Range	-67 to +250 °F	-55 to 121	°C
Seal	Hermetic	Hermetic	

ENGLISH		SI	
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)
3055D2	100	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

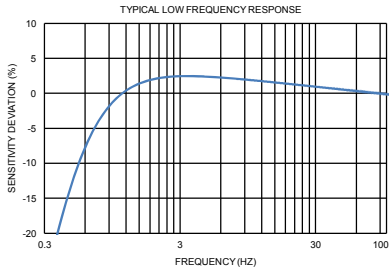
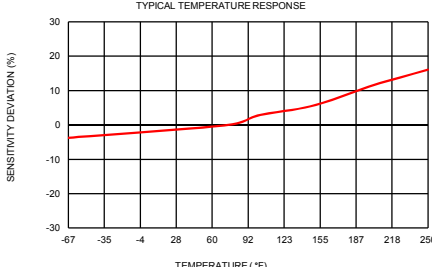
Refer to the performance specifications of the products in this family for detailed description

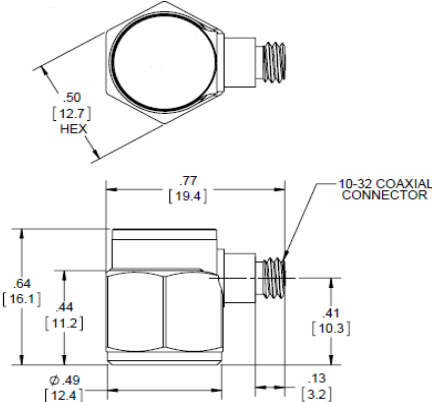
Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)
2) Model 6200 mounting stud, qty 1

Notes:

[1] Measured at 100Hz, 1 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 127-3055D for more information.



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