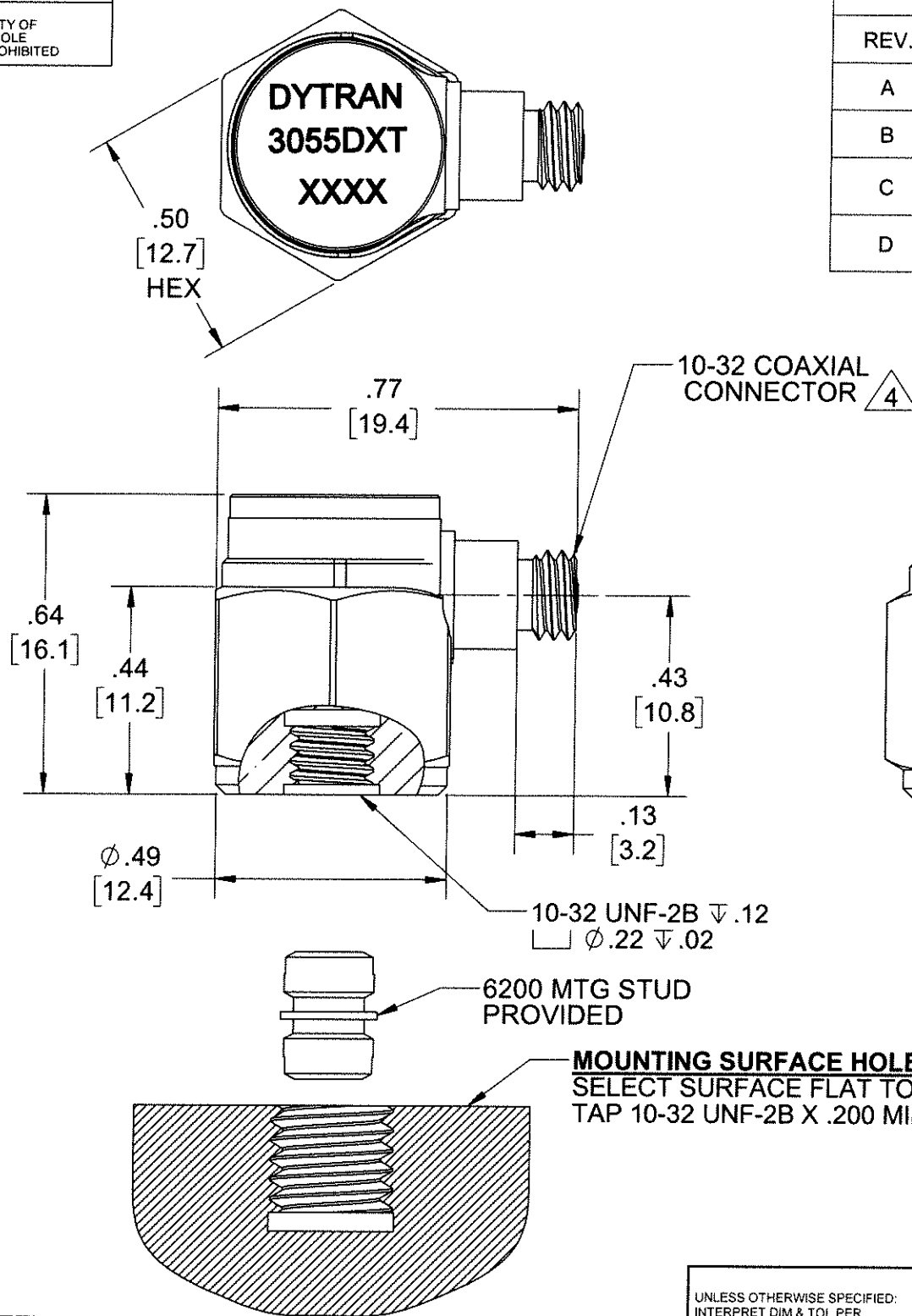


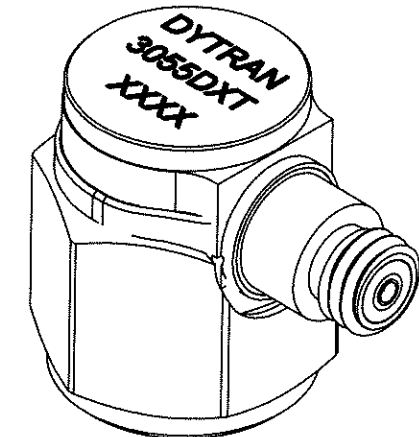
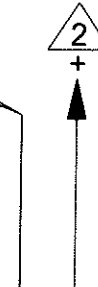
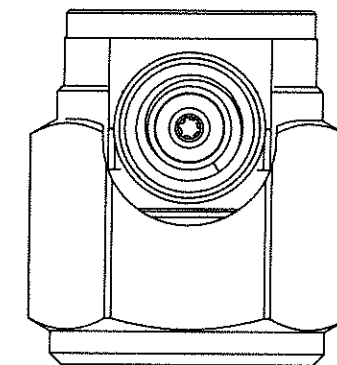
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MODEL	SENSITIVITY
3055D1T	10 mV/g
3055D2T	100 mV/g
3055D3T	500 mV/g
3055D4T	50 mV/g
3055D5T	20 mV/g
3055D6T	200 mV/g
3055D11T	1 mV/g
3055D12T	5 mV/g



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.

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

ORIG	RA	DATE
CHK	EM	11/06/14
APP	DV	12/17/14

DO NOT SCALE DRAWING

DATE

05/29/14

11/06/14

12/17/14

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

SIZE B

CAGE CODE 2W033

DWG NO 127-3055DT

REV D

SCALE: 3:1

PART NO:

SHEET 1 OF 1

Model Number		PERFORMANCE SPECIFICATIONS			DOC NO
3055D1T		IEPE ACCELEROMETER			PS3055D1T
					REV H, ECN 16090, 03/01/21



• HERMETICALLY SEALED

• BASE ISOLATED

• IDEAL LOW FREQUENCY RESPONSE

• TEDS

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	

PHYSICAL

Type Tapped Hole

Sensitivity, ± 5% [1]	10	mV/g	1	mV/m/s ²
Range for ± 5 Volts Output	500	g pk	4905	m/s ² pk
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	g RMS	0.029	m/s ² RMS
Spectral Noise	1Hz	μg RMS/√(Hz)	3335	μm/s ² RMS/√(Hz)
	10Hz	μg RMS/√(Hz)	1275	μm/s ² RMS/√(Hz)
	100Hz	μg RMS/√(Hz)	353	μm/s ² RMS/√(Hz)
	1000Hz	μg RMS/√(Hz)	206	μm/s ² RMS/√(Hz)
	10000Hz	μg RMS/√(Hz)	117.7	μm/s ² RMS/√(Hz)
Linearity [2]	± 1	% F.S.	± 1	% F.S.
Maximum Transverse sensitivity	5	%	5	%
Strain Sensitivity @ 250μe	0.002	g/μe	0.02	m/s ² /μe

PERFORMANCE

Maximum Shock	5000	g pk	49050	m/s ² pk
Temperature Range (<3% Sensitivity Deviation)	+50 to +100	°F	+10 to +38	°C
Operating Temperature Range	-67 to +225	°F	-51 to +107	°C
TEDS Operating Temperature	-40 to +185	°F	-40 to +85	°C
Seal	Hermetic		Hermetic	

ENVIRONMENTAL

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	

ELECTRICAL

This family also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)
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
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

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:

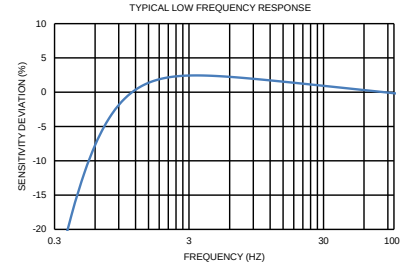
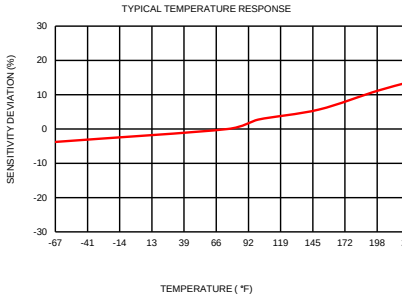
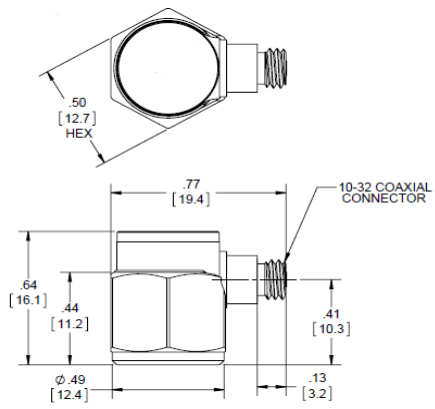
[1] Measured at 100Hz, 1 g RMS per ISA RP 37.2.

[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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