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DWG NO

127-3200BT

SHEET

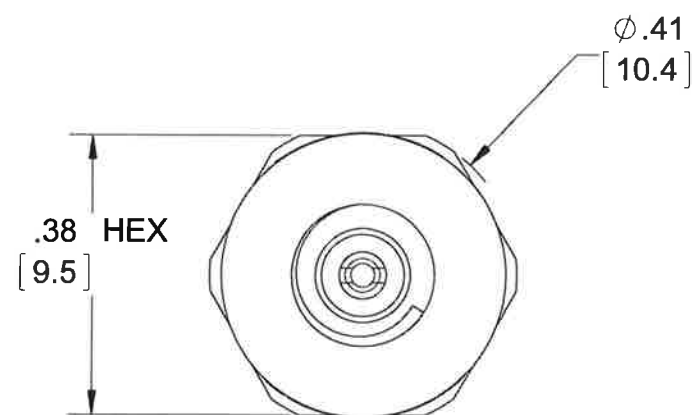
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REV

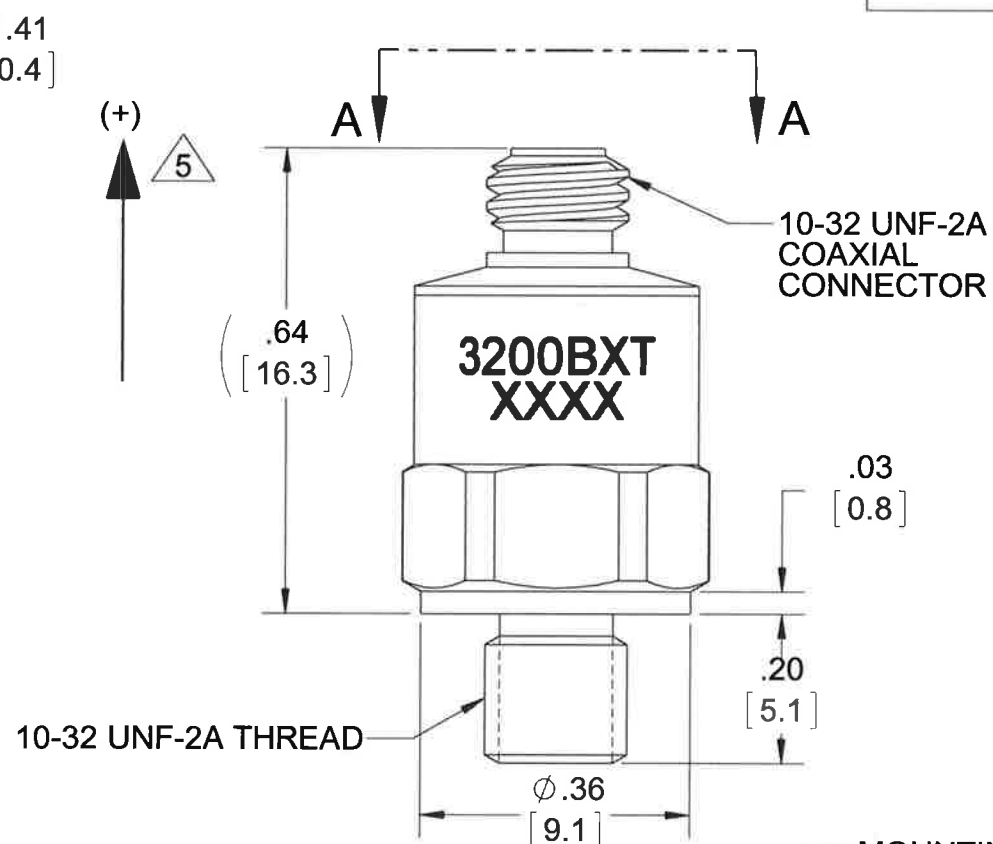
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REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	11055	INITIAL RELEASE	EC 08/05/14	JLS	



VIEW A-A



MOUNTING HOLE PREPARATION
TAP 10-32 UNF-2B X .25 [6.4] MIN DEPTH
OF PERFECT THREAD. HOLE TO BE
PERPENDICULAR WITHIN $\pm 1^\circ$



3200BT SERIES

5 ARROW INDICATES SENSE AND DIRECTION OF
ACCELERATION FOR POSITIVE - GOING OUTPUT SIGNAL

4 PREPARE FLAT SURFACE TO THIS DIA. WITH A FINISH OF
OR BETTER AND FLAT TO .001 TIR.

3 PREPARE MOUNTING SURFACE AS SHOWN.
APPLY A LAYER OF SILICONE GREASE TO MOUNTING
SURFACE. TORQUE IN PLACE WITH 30 LB-IN.

2. HOUSING MATERIAL: 17-4 PH STAINLESS STEEL

1. WEIGHT: 6 GRAMS MAX

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.
DIMENSIONS IN BRACKETS [] ARE IN
MILLIMETERS TOLERANCES ARE:

DECIMALS	METRIC	ANGLES
.XX $\pm .03$	.X ± 0.8	$\pm 1^\circ$
.XXX $\pm .010$	.XX ± 0.25	

APPROVALS

DATE

ORIG EC 08/05/14

CHK EC 08/05/14

APP JVS 8/8/14

DO NOT SCALE DRAWING

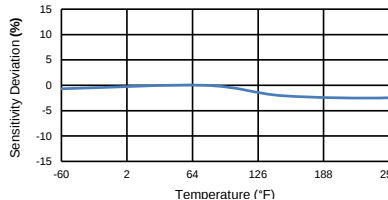
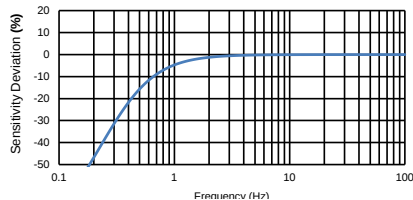
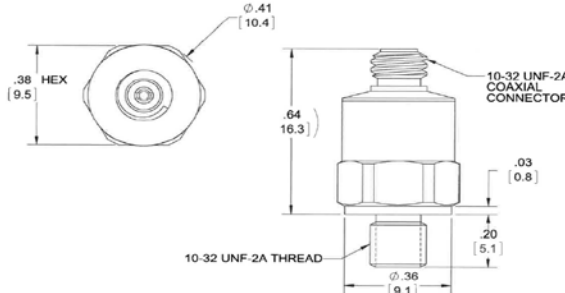
THIRD ANGLE PROJECTION
USA

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

TITLE: OUTLINE/INSTALLATION DRAWING,
SEIRES 3200BT LIVM, SHOCK
ACCELEROMETERS

SIZE B	CAGE CODE 2W033	DWG NO 127-3200BT	REV A
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SCALE: 4:1	SHEET 1 OF 1
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MODEL NUMBER		PERFORMANCE SPECIFICATION				DOC NO																																				
3200B3T						PS3200B3T																																				
		SINGLE AXIS ACCELEROMETER, IEPE				REV C, ECN 15860, 07/28/20																																				
	• LIGHTWEIGHT • HIGH NATURAL FREQUENCY • BASE ISOLATED																																									
	PHYSICAL		ENGLISH		SI																																					
	Weight	0.21	oz	6.0	grams																																					
	Mounting Provision	10-32 UNF-2A		10-32 UNF-2A																																						
	Connector	Coaxial		Coaxial																																						
	Material Body	10-32 UNF-2A		10-32 UNF-2A																																						
	Material	17-4 PH S.S.		17-4 PH S.S.																																						
	Isolation	Case isolated		Case isolated																																						
	Sensing Element	Quartz		Quartz																																						
	Mode	Compression		Compression																																						
	PERFORMANCE		ENGLISH		SI																																					
	Sensitivity +/- 10% [1]	0.25	mV/g	0.03	mV/ m/s ²																																					
	Maximum Range F.S.	20000	g pk	196000	m/s ² pk																																					
	Frequency Response, ± 5%	.50 to 10000	Hz	.50 to 10000	Hz																																					
	± 10%	.35 to 20000	Hz	.35 to 20000	Hz																																					
	± 3db	.16 to >50000	Hz	.16 to >50000	Hz																																					
	Mounted Resonant Frequency	> 90	kHz	> 90	kHz																																					
	Electrical Noise	0.28	g RMS	2.7	m/s ² RMS																																					
	Linearity [2]	± 1%	%F.S	± 1%	%F.S																																					
	Transverse Sensitivity, Max.	3	%	3	%																																					
	ENVIRONMENTAL		ENGLISH		SI																																					
	Maximum Shock	± 100000	g pk	± 981000	m/s ² pk																																					
	Temperature Range	-60 to +250	°F	-51 to +121	°C																																					
	Seal	Epoxy		Epoxy																																						
	ELECTRICAL		ENGLISH		SI																																					
	Power Supply [3]	2 to 20	mA	2 to 20	mA																																					
	Compliance Voltage Range	+18 to +30	V	+18 to +30	V																																					
	Output Impedance	100	Ω	100	Ω																																					
	Bias Voltage	+7.5 to +9.5	VDC	+7.5 to +9.5	VDC																																					
	Discharge Time Constant	1 to 1.5	sec	1 to 1.5	sec																																					
	Electrical Isolation [4]	10	GΩ	10	GΩ																																					
	Grounding	Case Isolated		Case Isolated																																						
This family also includes: <table><tr><th>Model</th><th>Sensitivity (mV/g)</th><th>Range (g pk)</th><th>Resolution (g RMS)</th><th>Oper. Temp(°F)</th><th>Time Constant (Sec)</th></tr><tr><td>3200BT</td><td>0.05</td><td>70000</td><td>1.4</td><td>-60 to +250</td><td>1.0 to 1.5</td></tr><tr><td>3200B2T</td><td>0.1</td><td>50000</td><td>0.7</td><td>-60 to +250</td><td>1.0 to 1.5</td></tr><tr><td>3200B4T</td><td>0.5</td><td>10000</td><td>0.14</td><td>-60 to +250</td><td>1.0 to 1.5</td></tr><tr><td>3200B5T</td><td>1.0</td><td>5000</td><td>0.07</td><td>-60 to +250</td><td>1.0 to 1.5</td></tr><tr><td>3200B6T</td><td>2.0</td><td>2500</td><td>0.035</td><td>-60 to +250</td><td>1.0 to 1.5</td></tr></table> Refer to the performance specifications of the products in this family for detailed description. Supplied Accessories: 1) Accredited calibration certificate (ISO 17025) Notes: [1] Note Removed [2] Measured using zero-based best straight-line method, % of F.S. or any lesser range. [3] Do not apply power to this device without current limiting, 20 mA MAX. To do so will destroy the integral IC amplifier. [4] Case ground to mounting surface. [5] In the interest of constant product improvement, we reserve the rights to change the 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 overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. TYPICAL TEMPERATURE RESPONSE  TYPICAL LOW FREQUENCY RESPONSE   Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3200BT for more information.							Model	Sensitivity (mV/g)	Range (g pk)	Resolution (g RMS)	Oper. Temp(°F)	Time Constant (Sec)	3200BT	0.05	70000	1.4	-60 to +250	1.0 to 1.5	3200B2T	0.1	50000	0.7	-60 to +250	1.0 to 1.5	3200B4T	0.5	10000	0.14	-60 to +250	1.0 to 1.5	3200B5T	1.0	5000	0.07	-60 to +250	1.0 to 1.5	3200B6T	2.0	2500	0.035	-60 to +250	1.0 to 1.5
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