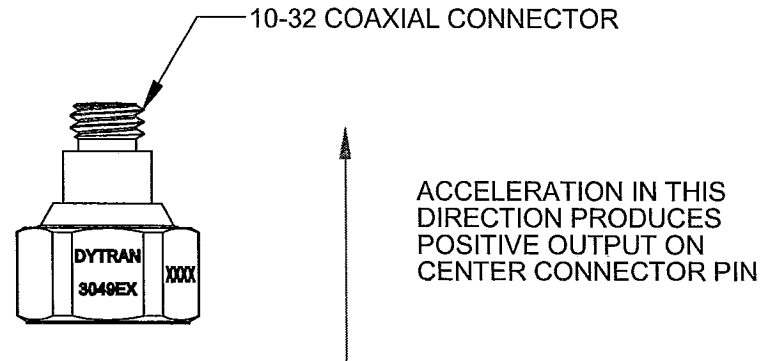
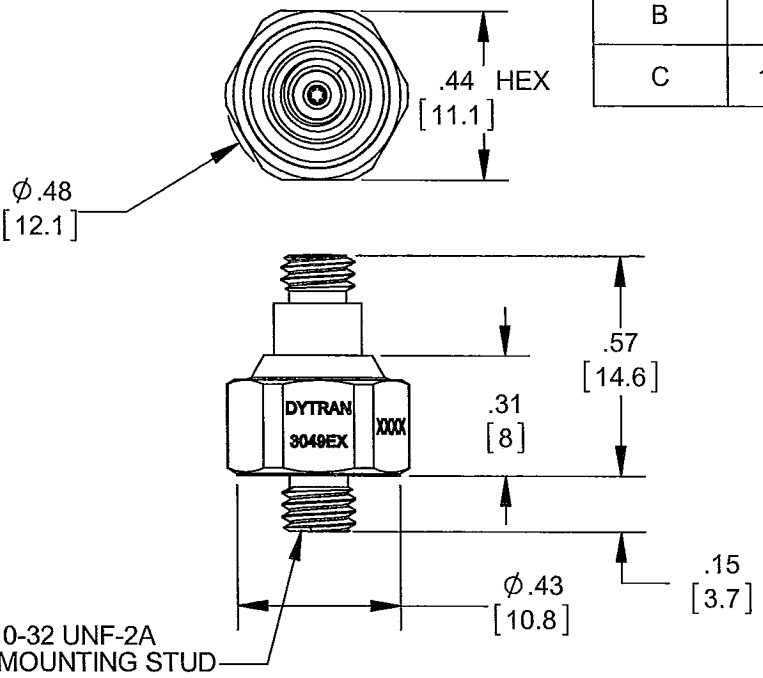


PROPRIETARY AND CONFIDENTIAL

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REVISIONS					
REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	5743	ADDED NOTE 1	RA, 2/04/09	EP	ANS
B	9307	REVISED TO REFLECT NEW HOUSING. UPDATED WEIGHTS	LN 11/02/12	JS	DV
C	10171	3049E1 & 3049E3 - WEIGHT IS: 3.5 GRAMS WAS: 4.0 GRAMS	LN 07/10/13	<i>JS</i>	<i>AS</i>



3049E 10mV/g
3049E2 100mV/g

3049E1 10mV/g
3049E3 100mV/g

1 MOUNTING TORQUE TO: 8-10 lb-in
NOTES: UNLESS OTHERWISE SPECIFIED

MODEL	REV	ECN	DATE	SENSITIVITY	MOUNTING	WEIGHT, MAX
1 3049E	B	9307	11/02/12	10 mV/g	STUD	4.2 GRAMS
1 3049E1	C	10171	07/10/13	10 mV/g	ADHESIVE	3.5 GRAMS
1 3049E2	B	9307	11/02/12	100 mV/g	STUD	4.2 GRAMS
1 3049E3	C	10171	07/10/13	100 mV/g	ADHESIVE	3.5 GRAMS

USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	

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.
THDS PER MIL-S-7742.
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:
INCHES METRIC ANGLES
.XX ± .03 .X ± 0.8 ± 1°
.XXX ± 0.10 .XX ± 0.25

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS		DATE
ORIG	PML	12/09/05
CHK	PML	04/17/06
APP	PML	04/17/06
APP		

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

TITLE: **OUTLINE/INSTALLATION DRAWING, 3049E SERIES**

SIZE A	CAGE CODE 2W033	DWG. NO. 127-3049E	REV C
SCALE: 4:1	SOLIDWORKS	SHEET 1 OF 1	

SPECIFICATIONS
MODEL SERIES 3049E LIVM ACCELEROMETERS

SPECIFICATION		VALUE	UNITS
PHYSICAL			
WEIGHT, MAX.	3049E, 3049E2	4.2	grams
	3049E1, 304E3	3.5	grams
SIZE, HEX x HEIGHT (all models)		.44 x .57	inches
MOUNTING PROVISION	3049E, 3049E2	10-32 integral stud x .15	inch
	3049E1, 3049E3	adhesive	
CONNECTOR, TOP MOUNTED		10-32	coaxial
MATERIAL, BASE, CAP & CONNECTOR		titanium alloy	
SEISMIC ELEMENT TYPE		ceramic, annular shear	

PERFORMANCE	3049E	3049E1	3049E2	3049E3	
SENSITIVITY, $\pm 5\%$ [1]	10	10	100	100	mV/g
RANGE F.S. FOR ± 5 VOLTS OUTPUT	± 500	± 500	± 50	± 50	g
FREQUENCY RANGE, $\pm 5\%$ (all models)			1 to 10,000		Hz
RESONANT FREQUENCY			>35		kHz
EQUIVALENT ELECTRICAL NOISE, MAX	.003	.003	.0008	.0008	grms
BASE STRAIN SENSITIVITY	.004	.004	.004	.004	g/ $\mu\epsilon$
LINEARITY [2] (all models)			± 2		% F.S.
TRANSVERSE SENSITIVITY, MAX. (all models)			5		%

ENVIRONMENTAL	3049E	3049E1	3049E2	3049E3	
MAXIMUM VIBRATION	600	600	200	200	g pk
MAXIMUM SHOCK (all models)			5000		g pk
TEMPERATURE RANGE min	-60	-60	-60	-60	$^{\circ}$ F
max	250	250	212	212	$^{\circ}$ F
SEAL, HERMETIC (all models)			glass-to-metal/welded		
COEFFICIENT OF THERMAL SENSITIVITY			.06		% $^{\circ}$ F

ELECTRICAL			
SUPPLY CURRENT [3]		2 to 20	mA
COMPLIANCE VOLTAGE RANGE		+18 to +30	Volts
OUTPUT IMPEDANCE, TYP.		100	Ω
BIAS VOLTAGE.		+11 to +13	Vdc
DISCHARGE TIME CONSTANT		0.5 to 1.2	Sec
OUTPUT SIGNAL POLARITY		positive	
FOR ACCELERATION TOWARD TOP			
ELECTRICAL ISOLATION, MIN		10	M Ω
CASE GROUND TO MOUNTING SURFACE			

Accessories supplied: none

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

[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.

OPERATING INSTRUCTIONS MODEL SERIES 3049E
LIVM ACCELEROMETERS