



**MOUNTING PORT PREPARATION:**  
DRILL #38 (Ø.101) X .200 MIN DEPTH  
TAP 5-40 X .140 MIN DEPTH THD

5. SUGGESTED ADHESIVE TYPE FOR MODEL 3145A2G-CYANOACRYLATE "INSTANT" BOND.
4. TO INSTALL MOD 3145A2, TORQUE IN PLACE WITH 10 OZ.-INCHES.
3. WEIGHT-MOD 3145A2-2.3 GRAMS., MOD 3145A2G-2.1 GRAMS
2. SEAL-HERMETIC, ALL WELDED.
1. MATERIAL: TITANIUM ALLOY.

EXCEPT AS OTHERWISE NOTED	
ALL DIMENSIONS IN INCHES TOLERANCE: .XXX = ± .XX = ± .01	
SURFACE FINISH EXCEPT AS NOTED	✓
BREAK EDGES TO DEBURR RADIUS OR CHAMFER	
△ THESE DIAS ⊙ TO T.I.R.	
FILLETS -	MAX RAD.



CHATSWORTH, CA.

SCALE 4X	REV -	DATE -	ECN -
DATE 3/24/03	PART NO.		
DRAWN N.C.	CHECKED R.A.	MAT'L	
APPROVED	NEXT ASSEMBLY	USED ON 3145A2 & 3145A2G	
TITLE <b>OUTLINE/INSTALLATION DRAWING MODELS 3145A2 &amp; 3145A2G</b>			DWG NO. <b>127-3145A2</b>
SHEET 1 OF 1			



**NOTE: LIVM** is Dytran's trademark for its line of Low Impedance Voltage Mode sensors with built-in amplifiers operating from constant current sources over two wires. **LIVM** instruments are compatible with most other manufacturers' comparable systems.

**SPECIFICATIONS  
MODELS 3145A2 & 3145A2G ACCELEROMETERS**

<b>SPECIFICATION</b>	<b>VALUE</b>	<b>UNITS</b>
<b>PHYSICAL</b>		
WEIGHT (Model 3145A2/3145A2G)	2.3/2.1	Grams
SIZE, HEX x HEIGHT (Height does not include mtg. stud)	.281 (9/32) x .49	Inches
MOUNTING PROVISION (Model 3145A2/3145A2G)	5-40 integral stud/adhesive mount	
CONNECTOR, TOP MOUNTED	5-44	Coaxial
MATERIAL, HOUSING AND CONNECTOR	300 Series	Stainless Steel
ELEMENT STYLE	Ceramic, Shear	
<b>PERFORMANCE</b>		
SENSITIVITY, $\pm 10\%$ [1]	5.0	mV/G
RANGE F.S. FOR $\pm 5$ VOLTS OUTPUT	$\pm 1000$	G's
FREQUENCY RANGE, $\pm 5\%$	0.8 to 10k	Hz
RESONANT FREQUENCY	>45	kHz
EQUIVALENT ELECTRICAL NOISE FLOOR	.07	G's RMS
LINEARITY [2]	$\pm 1\%$	% F.S.
TRANSVERSE SENSITIVITY, MAX.	5	%
STRAIN SENSITIVITY	.001	G's/ $\mu\sigma$ @ 250 $\mu\sigma$
<b>ENVIRONMENTAL</b>		
MAXIMUM VIBRATION/SHOCK	1000/3000	$\pm$ G's/G's PEAK
TEMPERATURE RANGE	-60 to +250	$^{\circ}$ F
SEAL, HERMETIC	Glass-to-metal and TIG welded	
COEFFICIENT OF THERMAL SENSITIVITY	.04	%/ $^{\circ}$ F
<b>ELECTRICAL</b>		
SUPPLY CURRENT/COMPLIANCE VOLTAGE RANGE [3]	2 to 20/+18 to +30	mA/Volts
OUTPUT IMPEDANCE, TYP.	100	Ohms
BIAS VOLTAGE	11 to 13	VDC
DISCHARGE TIME CONSTANT	0.5 to 1.2	Sec
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP		Positive
CASE GROUNDING	Case is grounded to electrical power ground	

[1] Measured at 100 Hz, 1 G RMS 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.