



**MOUNTING PORT PREPARATION:**

PREPARE FLAT MOUNTING SURFACE, .60 DIA., MINIMUM DIA. .50 IN., FLAT TO .001 TIR.  
 DRILL #29(Ø.136) X .250 MIN. DEPTH (B) (C)  
 TAP 8-32 UNC-2B X .180 MIN DEPTH (C)  
 REMOVE ALL BURRS AND MACHINING RESIDUE.

- 3 RECOMMENDED TORQUE ON MOUNTING SCREW: 15 LB-INCHES .
- 2 WEIGHT: 23 GRAMS (LESS CABLE).
- 1 FOR BEST FREQUENCY RESPONSE, ACCELEROMETER MUST CONTACT MOUNTING SURFACE OVER ENTIRE MOUNTING SURFACE OF THE ACCEL.

**EXCEPT AS OTHERWISE NOTED**

ALL DIMENSIONS IN INCHES  
 TOLERANCE: .XXX = ± .XX = ± .01

SURFACE FINISH EXCEPT AS NOTED ✓

BREAK EDGES TO DEBURR RADIUS OR CHAMFER MAX

△ THESE DIAS ⊙ TO T.I.R.

FILLETS - MAX RAD.



CHATSWORTH, CA.

SCALE	2X	REV	C	DATE	11-11-99	ECN	-
DATE	5/2/97	PART NO.					
DRAWN	N.C.	CHECKED	N.C.	MAT'L			
APPROVED	NEXT ASSEMBLY			USED ON	3168F		
TITLE						DWG NO.	
OUTLINE/INSTALLATION DRAWING, MODEL 3168F						127-3168F	
						SHEET 1 OF 1	

**SPECIFICATIONS  
MODEL 3168F LIVM ACCELEROMETER**

<b>SPECIFICATION</b>	<b>VALUE</b>	<b>UNITS</b>
<b>PHYSICAL</b>		
WEIGHT (approx.)	23	Grams
SIZE, BODY, (dia x height)	.80 x .50	Inches
MOUNTING PROVISION	Thru hole w/thread for captive #8 screw	
ELECTRICAL CONNECTION (white: gnd return, black: signal/power)	Radially mounted 2-wire cable 4 ft. long	
MATERIAL: BODY	316L	Stainless Steel
CABLE OUTER JACKET MATERIAL	Viton ©	
CABLE LENGTH	4	FT.
<b>PERFORMANCE</b>		
SENSITIVITY, ±5% [1]	10	mV/G
RANGE F.S. FOR ±5 VOLTS OUTPUT	± 500	G's
FULL FREQUENCY RESPONSE, ±5%	1 to 20k	Hz
RESONANT FREQUENCY, NOM.	50	kHz
EQUIVALENT ELECTRICAL NOISE FLOOR	.0028	G's RMS
LINEARITY [2]	± 1%	% F.S.
TRANSVERSE SENSITIVITY, MAX.	5	%
STRAIN SENSITIVITY	.001	G's/μ
<b>ENVIRONMENTAL</b>		
MAXIMUM VIBRATION/SHOCK	600/3000	± G's/G's PEAK
TEMPERATURE RANGE	-60 to +250	°F
SEAL, HERMETIC	TIG welded & vulcanized	
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/°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, +8 VOLTS NOM.	+7.5 to +8.5	VDC
DISCHARGE TIME CONSTANT, NOM.	0.5	SEC
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP		POSITIVE
ELECTRICAL ISOLATION, either wire to case	10 Megohms, min.	

**ACCESSORIES PROVIDED**

Model 6238A1 captive mounting screw, 8-32 x .65 long.

**[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.**