



- 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 (C) TO T.I.R.

FILLETS - MAX RAD.

DYTRAN INSTRUMENTS, INC.		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

SPECIFICATION	VALUE	UNITS
PHYSICAL		
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.
PERFORMANCE		
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
ENVIRONMENTAL		
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
ELECTRICAL		
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.