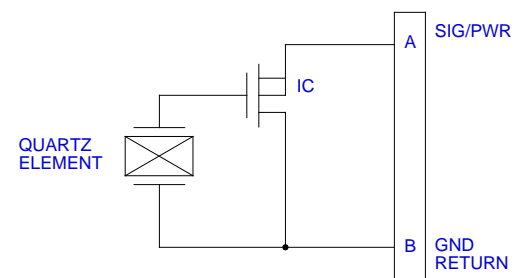


6176 MOUNTING STUD SUPPLIED

MOUNTING PREPARATION
 PREPARE FLAT SURFACE (TO .001 TIR)
 NEXT DRILL #3 (.213) DIA X .250 DEEP
 BOTTOM TAP 1/4-28 UNF-2B X .200 MIN
 THREAD DEPTH



SCHEMATIC DIAGRAM

1. WEIGHT - 107 GRAMS

ALL PART NUMBER LETTERSUFFIXES ARE TO BE INTERPRETED AS FOLLOWS:
 I.E. - 107-0000-01 (X)
M - MACHINED ONLY (UNPLATED) **G** - MATERIAL HAS BEEN GRAINED
P - PLATED/PAINTED **S** - MATERIAL HAS BEEN SAWCUT
H - HEAT TREATED **E** - ENVIRONMENTAL TEST

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

		CHATSWORTH, CA.					
SCALE	1X	REV	-	DATE	-	ECN	-
DATE	5-16-96	PART NO.					
DRAWN	N.C.	CHECKED	D.Z.	MAT'L			
APPROVED		NEXT ASSEMBLY			USED ON		
TITLE						DWG NO.	
OUTLINE/INSTALLATION MODEL 3187D						127-3187D	
						SHEET 1 OF 1	

SPECIFICATIONS

MODEL 3187D LOW FREQUENCY, LOW NOISE, LIVM ACCELEROMETER

SPECIFICATION	VALUE	UNITS
PHYSICAL		
WEIGHT	122	GRAMS
SIZE, HEX x HEIGHT	1.00 x 2.02	IN
MOUNTING PROVISION, (STUD PROVIDED)	1/4-28 TAPPED HOLE IN BASE x .20 DEEP	
ELECTRICAL CONNECTOR, TOP MOUNTED	MS3102A-10SL-4P	2-PIN MILITARY
MATERIAL CASE/CONNECTOR	316L	ST. STEEL
PERFORMANCE		
SENSITIVITY +/- 5% [1]	500	mV/G
RANGE FOR +/- 5 VOLTS OUT	+/-10	G
FREQUENCY RESPONSE, +/- 5%	.48 to 1000	Hz
FREQUENCY RESPONSE, - 3db FREQUENCIES	.16 and 3000	Hz
MOUNTED RESONANT FREQUENCY	>15	kHz
EQUIVALENT ELECTRICAL NOISE FLOOR (resolution)	.00002	G RMS
AMPLITUDE NON-LINEARITY (ZERO BASED BEST FIT ST.LINE METHOD)	2.0	% F.S., MAX.
TRANSVERSE SENSITIVITY, MAX.	5	PERCENT
STRAIN SENSITIVITY	.001	G's PER MICROSTRAIN @ 250/ $\mu\sigma$
ENVIRONMENTAL, both models		
MAXIMUM VIBRATION	20	G's, RMS
MAXIMUM SHOCK	3000	G's, PEAK
TEMPERATURE RANGE	-60 TO +250	°F
ENVIRONMENTAL SEAL	GLASS TO METAL/WELDED, HERMETIC	
SUBMERSIBLE OPTION--UNIT MAY BE TOTALLY SUBMERGED WHEN USED WITH MODEL 6194 IMMERSION PROOF BOOT.		
ELECTRICAL		
COMPLIANCE (SUPPLY) VOLTAGE RANGE [2]	+18 to +30	VDC
EXCITATION CURRENT RANGE	2 to 10	mA
OUTPUT IMPEDANCE, NOM.	200	OHMS
OUTPUT BIAS VOLTAGE, +/-1 VOLT	12.5	VDC
DISCHARGE TIME CONSTANT	0.9 to 2.0	SEC.
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP	POSITIVE GOING	
POWER/SIGNAL GROUND TO CASE ISOLATION, MIN.	10	MEGOHMS

SUPPLIED ACCESSORIES: (1) Model 6176 1/4 28 mounting stud

OPTIONAL ACCESSORIES: Model 6194 immersion proof boot

[1] MEASURED AT 100 Hz, 1 G RMS. A CALIBRATION CERTIFICATE TRACEABLE TO **NIST** IS SUPPLIED WITH EACH INSTRUMENT.

[2] We recommend the use of Dytran LIVM current source power units for this instrument. **Do not** connect to a source of DC voltage without current limiting in the range of 2 to 10 mA. To do so **will** destroy the integral amplifier