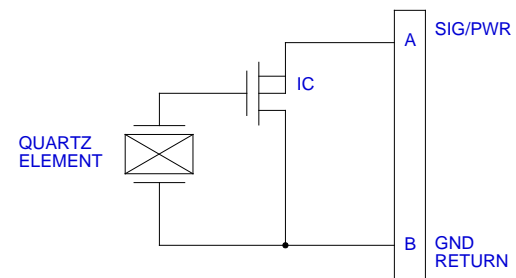


ARROW INDICATES SENSE OF DIRECTION OF ACCELERATION FOR POSITIVE GOING OUTPUT SIGNAL

MOUNTING PREPARATION
 PREPARE FLAT SURFACE (TO .001TIR)
 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.

		CHATSORTH, 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, TYP.	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/ μ
ENVIRONMENTAL, both models		
MAXIMUM VIBRATION	20	G's, RMS
MAXIMUM SHOCK	3000	G's, PEAK
TEMPERATURE RANGE	-60 TO +250	$^{\circ}$ 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, MIN.	1.0	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