



4. WEIGHT, 3123A: 100 GRAMS

3. MATERIAL, 3123A: 316L STAINLESS STEEL.

2. TO MOUNT TEST ACCELEROMETER WITH A 1/4-28 MOUNTING HOLE, USE MODEL 6201 10-32 TO 1/4-28 ADAPTOR STUD. CONSULT THE FACTORY FOR AVAILABILITY OF OTHER SPECIAL STUDS TO ADAPT TO OTHER THREADS INCLUDING METRIC SIZES.

1. APPLY SILICONE GREASE SPARINGLY TO INTERFACE BETWEEN TEST ACCELEROMETER AND THE 3123A MOUNTING SURFACE TO IMPROVE HIGH FREQUENCY TRANSMISSABILITY.

ALL PART NUMBER LETTERSUFFIXES ARE TOBE INTERPRETED ASFOLLOWS:
 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 5/16/97	ECN -
DATE 5/16/97	PART NO.		
DRAWN N.C.	CHECKED N.C.	MAT'L	
APPROVED	NEXT ASSEMBLY	USED ON	

TITLE OUTLINE/INSTALLATION DRAWING, MODEL 3123A CALIBRATION STANDARD	DWG NO. 127-3123A
SHEET 1 OF 1	

SPECIFICATIONS 3123AK SYSTEM	VALUE	UNITS
SYSTEM SENSITIVITY, (Meas at 100 Hz, 1 G, RMS) [2]	100 +/- 1%	mV/G
FREQUENCY RESPONSE, +/- 2%	10 to 5000	Hz
RANGE FULL SCALE FOR +/- 5 V OUT	+/- 50	G
RANGE, FORCE-POUNDS [3]	+/- 10	LBS.
SPECIFICATIONS ACCELEROMETER MODEL 3123A [1]	VALUE	UNITS
SENSITIVITY, NOM	100	mV/G
COEFFICIENT OF THERMAL SENSITIVITY	.06	%/°F
TEMPERATURE RANGE	-60 to +250	°F
TRANSVERSE SENSITIVITY, MAX	3	%
ELECTRICAL NOISE FLOOR, EQUIVALENT	.003	G
LINEARITY	+/- 1	% F.S.
OUTPUT IMPEDANCE, NOM.	100	OHMS
OUTPUT VOLTAGE BIAS, NOM.	+11	VDC
CONNECTOR, RADIAL	10-32	MINI-COAXIAL
SIZE H x DIAMETER	1.47 x 1.000	INCHES
WEIGHT	120	GRAMS
MATERIAL, HOUSING & CONNECTOR	300 SERIES STAINLESS STEEL	
ENVIRONMENTAL SEAL	EPOXY	
MOUNTING PROVISION, TOP AND BOTTOM	10-32 TAPPED HOLES X .200 DEEP	INCHES
SPECIFICATIONS AMPLIFIER/POWER UNIT MODEL 4119	VALUE	UNITS
ACCELEROMETER CONSTANT CURRENT	2 FIXED	mA
COMPLIANCE (ACCELEROMETER SUPPLY) VOLTAGE	+20	VDC
FILTER, LOW PASS	VCVS, MODIFIED BUTTERWORTH	2-POLE
TEMPERATURE RANGE	0 to +120	°F
WEIGHT	900	GRAMS
CONNECTORS, SENSOR/OUTPUT	10-32/BNC	
LINE POWER, 115/230 VAC [4]	2.4	VA

[1] The 3123AK system consists of (1) 3123A accelerometer, (1) 4119 power unit/amplifier, (1) 6010A05 sensor cable, (1) 6020A05 output cable, (1) 6200 10-32/10-32 mounting stud, (1) 6201 10-32/1/4-28 mounting stud, (1) carrying case.

[2] Calibrated with a Model 3010A transfer standard weighing 19 grams.

[3] Force pounds equals the product of the weight (in pounds) times the G level.

[4] 230 Volt version is model E3123AK.