



4. WEIGHT, 3120B: 83 GRAMS

3. MATERIAL, 3120B: 316L STAINLESS STEEL.

2. TO MOUNT 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 3120B MOUNTING SURFACE TO
IMPROVE HIGH FREQUENCY TRANSMISSABILITY.

		CHATSWORTH, CA.		
SCALE	1X	REV	DATE	ECN
DATE	1/28/00	PART NO.		
DRAWN	N.C.	CHECKED	R.A.	MAT'L
APPROVED		NEXT ASSEMBLY	USED ON	3120BK
TITLE				DWG NO.
OUTLINE/INSTALLATION DRAWING, MODEL 3120B				127-3120B
				SHEET 1 OF 1

SPECIFICATIONS

MODELS 3120BK & E3120BK VIBRATION CALIBRATION SYSTEM

SYSTEM DEFINITION THE **3120BK** SYSTEM CONSISTS OF: 3120B STD. ACCELEROMETER, 4119B POWER UNIT/AMPLIFIER, 6011A05 INPUT CABLE, 6020A05 OUTPUT CABLE, 6200 MOUNTING STUD (2), 6201 10-32/1/4-28 MTG. STUD, 6213 ADHESIVE MOUNTING BASE, 6309 CARRYING CASE. MODEL **E3120BK** IS IDENTICAL EXCEPT FOR THE 230 VAC OPERATING VOLTAGE

<u>SYSTEM SPECIFICATIONS</u>	<u>VALUE</u>	<u>UNITS</u>
SYSTEM SENSITIVITY @ 100 Hz [1]	10.00 +/- .05	mV/G
FREQUENCY RESPONSE, ±2% [1]	10 to 10,000	Hz
LINEARITY	+/- 1	% F.S.
RANGE F.S. FOR 5 VOLTS OUT	+/- 500	G
OPERATING FORCE RANGE [2]	+/- 40	Force-pounds
EQUIVALENT ELECTRICAL NOISE, (BROADBAND)	.02	G, RMS
OUTPUT IMPEDANCE	2	Ohms

ACCELEROMETER MODEL 3120B SPECIFICATIONS

SENSITIVITY, ±5%	10.5	mV/G
DISCHARGE TIME CONSTANT	1.0	Sec
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/°F
TEMPERATURE RANGE	-60 to +200	°F
TRANSVERSE SENSITIVITY, MAX	3	%
ELECTRICAL CONNECTOR, RADIAL	10-32 COAXIAL	Jack
MOUNTING HOLES, TOP & BOTTOM	10-32	UNF-2B
MATERIAL (NON-MAGNETIC)	300 SERIES STAINLESS STEEL	
SUPPLY CURRENT (CONSTANT CURRENT)	2	mA
COMPLIANCE VOLTAGE	+20	VDC
WEIGHT	3/85	oz/grams

AMPLIFIER/POWER UNIT 4119B SPECIFICATIONS

SENSOR SUPPLY CURRENT/VOLTAGE, STD	2/+20	mA/VDC
FILTER, LOW PASS, ACTIVE	VCVS	12 db/octave
SENSOR/OUTPUT CONNECTOR	BNC/BNC	Coaxial jack
INPUT POWER, STD MODEL, 115 VAC	2.4	VA
INPUT POWER, 'E' MODEL, 230 VAC	2.4	VA
POWER CORD, STD	6 FT 3-WIRE W/CHASSIS GND	
WEIGHT	32/900	oz/grams
SIZE (H x W x D) [3]	5.5 x 1.6 x 8.0	Inches
(H x W x D) [3]	140 x 41 x 203	mm
TEMPERATURE RANGE	0 to +120	° F

[1] System calibrated at factory with **NIST** traceable transfer standard accelerometer weighing 19 grams. NIST traceability number supplied with each system calibration.

[2] Force pound range = product of weight of test accelerometer x G level.

[3] Mounts in available Model 4200 19-inch wide equipment rack. Up to 10 units fit in one rack.