



3. WIRE SIZE IS AWG 30.

2. HOUSING MATERIAL: TITANIUM ALLOY.

1. WEIGHT: 6 GRAMS.

ALL DIMENSIONS IN INCHES

		MASTER ONLY IF IN RED		CHATSWORTH, CA.	
SCALE	2X	REV	-	DATE	-
DATE	1/03/06	PART NO.	MODEL 3003B		
DRAWN	N.C.	CHECKED	R.A.	MAT'L	
APPROVED			NEXT ASSEMBLY	USED ON	3003B
TITLE				DWG NO.	
OUTLINE/INSTALLATION DRAWING, MODEL 3003B				127-3003B	
SHEET 1 OF 1					



SPECIFICATIONS, MODEL 3003B TRIAXIAL ACCELEROMETER

SPECIFICATIONS	VALUE	UNITS
PHYSICAL		
WEIGHT (NOT INCLUDING PIGTAIL)	6.0	GRAMS
SIZE (HEIGHT x WIDTH x DEPTH)	0.365 x .54 x .54	INCHES
MOUNTING	ADHESIVE MOUNT	
ELECTRICAL CONNECTION PROVISION	4-WIRE PERM ATTACHED CABLE, #30 AWG	22 IN.
MATERIAL, HOUSING/CABLE ADAPTER	TITANIUM ALLOY	
PERFORMANCE		
SENSITIVITY, $\pm 10\%$ [1]	2.0 (NOM.)	mV/G
RANGE, F.S. (each axis)	± 500	G
FULL SCALE VOLTAGE OUTPUT	± 1	VOLTS
FREQUENCY RESPONSE, $\pm 10\%$	2 to 5000	Hz
ELEMENT NATURAL FREQUENCY	>30	kHz
EQUIVALENT ELECTRICAL NOISE	.007	G, RMS
LINEARITY [2]	1	%F.S.
TRANSVERSE SENSITIVITY, MAX,	5	%
SIGNAL POLARITY	POSITIVE FOR MOTION IN DIRECTION OF ARROWS ETCHED ON HOUSING	
ENVIRONMENTAL		
MAXIMUM VIBRATION	± 600	G
MAXIMUM SHOCK	5000	G
TEMPERATURE RANGE	-40 to +175	$^{\circ}\text{C}$
ENVIRONMENTAL SEAL	EPOXY	
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/ $^{\circ}\text{C}$
ELECTRICAL		
SUPPLY CURRENT, (each axis) [3]	4.0	mA
COMPLIANCE (SUPPLY), NOM. (each axis)	+4.5	VDC
OUTPUT IMPEDANCE, TYP.	100	OHMS
OUTPUT BIAS VOLTAGE	+1.7 to 3.4	VDC
DISCHARGE TIME CONSTANT	0.25 to .75	SEC
GROUND ISOLATION	NONE CASE IS CONNECTED TO SIG RETURN	

[1] Reference sensitivity measured at 100 Hz, 1 G RMS per ISA RP 37.2

[2] Linearity is % of specified full scale (or any lesser full scale range), zero-based best fit straight line method.

[3] Power only with Dytran LIVM power unit or other Dytran-compatible constant current type power unit. If power is applied without current limiting protection, the internal amplifier will be immediately destroyed.