



- 4. SENSING ELEMENT TYPE: QUATTZ SHEAR.
- 3. NOMINAL SENSITIVITY: 10 mV/G.
- 2. MATERIAL, HOUSING AND CONNECTOR: 300 SERIES STAINLESS STEEL.
- 1. WEIGHT: 100 GRAMS.

		MASTER ONLY IF IN RED		CHATSWORTH, CA.	
SCALE	2X	REV	-	DATE	-
DATE	7/24/00	PART NO.	MODEL 3027B		
DRAWN	N.C.	CHECKED	R.A.	MAT'L	
APPROVED		NEXT ASSEMBLY	USED ON	3027B	
TITLE				DWG NO.	
OUTLINE/INSTALLATION DRAWING, BACK-TO-BACK STANDARD ACCELEROMETER MODEL 3027B				127-3027B	
				SHEET 1 OF 1	



SPECIFICATIONS

MODEL 3027B BK-TO-BK VIBRATION CALIBRATION ACCELEROMETER

SPECIFICATIONS

SENSITIVITY [1]	>10	mV/G
DISCHARGE TIME CONSTANT	1.0	Sec
FREQUENCY RESPONSE $\pm 5\%$ [2]	0.5 TO 10k	Hz
RESONANT FREQUENCY, NOM	40	kHz
RANGE FOR ± 5 VOLTS OUT, NOM.	± 500	G
OPERATING FORCE RANGE [3]	± 40	Force-Lbs.
EQUIVALENT ELECTRICAL NOISE FLOOR	.01	G, RMS
OUTPUT IMPEDANCE	<100	Ohms
COEFFICIENT OF THERMAL SENSITIVITY	.03	$\%/^{\circ}\text{F}$
TEMPERATURE RANGE	-60 to +200	$^{\circ}\text{F}$
TRANSVERSE SENSITIVITY, MAX	3	%
CONNECTOR, RADIAL	10-32 COAXIAL	
MOUNTING HOLES, TOP/BOTTOM	1/4-28/10-32	UNF-2B
MATERIAL (NON-MAGNETIC)	300 SERIES STAINLESS STEEL	
SUPPLY CURRENT (CONSTANT CURRENT)	2 to 5	mA
COMPLIANCE VOLTAGE	+20	VDC
WEIGHT	3.5/100	oz/grams

SUPPLIED ACCESSORIES:

- (2) Model 6200 10-32 to 10-32 mounting studs
- (1) Model 6201 10-32 to 1/4-28 mounting stud
- (1) Model 6176 1/4-28 to 1/4-28 mounting stud
- (1) 6186 adhesive mounting pad

NOTES:

- [1] Actual sensitivity and frequency response is provided with each instrument, NIST traceable.
- [2] Accelerometer calibrated at factory with **NIST** traceable transfer standard accelerometer weighing 19 grams. NIST traceability number supplied with each system calibration. Loads of over 100 grams may effect sensitivity at high frequencies. See "Mass Loading" section of this manual.
- [3] Force pound range = product of weight of test accelerometer x G level.