



2. WEIGHT (LESS CABLE): 1.5 GRAMS .

1. TO REMOVE, (UN-INSTALL) TORQUE GENTLY ON HEX UNTIL ADHESIVE JOINT FAILS IN SHEAR. DO NOT STRIKE TO REMOVE.

		CHATSWORTH, CA.					
SCALE	4X	REV	-	DATE	-	ECN	-
DATE	1/28/00	PART NO.		MODEL 3032A1			
DRAWN	N.C.	CHECKED	R.A.	MAT'L			
APPROVED	NEXT ASSEMBLY		USED ON		MODEL 3032A1		
TITLE					DWG NO.		
OUTLINE/INSTALLATION DRAWING, MODEL 3032A1 (5 mV/G)					127-3032A1		
					SHEET 1 OF 1		



SPECIFICATIONS

MODEL 3032A1 MINIATURE QUARTZ SHEAR LIVM ACCELEROMETER

SPECIFICATION	VALUE	UNITS
PHYSICAL		
WEIGHT, LESS CABLE	1.5	GRAMS
WEIGHT, INCLUDING CABLE	5.6	GRAMS
SIZE (HEX x HEIGHT)	.25 x .28	INCHES
MOUNTING PROVISION	ADHESIVE MOUNT	
CONNECTOR, COAXIAL, MOUNTED AT END OF 18 IN CABLE	10-32, UNF-2A	JACK
CASE /CAP MATERIAL	STAINLESS STEEL	
ELEMENT TYPE	QUARTZ SHEAR	
PERFORMANCE		
SENSITIVITY, +/-10% [1]	5.0	mV/G
RANGE F.S. FOR +/- 5 VOLTS OUT	+/- 1000	G's
FREQUENCY RESPONSE, +/- 10%	1 to 10,000	Hz
FREQUENCY RESPONSE, +/- 3db	.66 TO 12,000	Hz
MOUNTED RESONANT FREQUENCY, NOM.	40	kHz
EQUIVALENT ELECTRICAL NOISE (RESOLUTION)	.007	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		
MAXIMUM VIBRATION	1500	G's, RMS
MAXIMUM SHOCK	2000	G's, PEAK
TEMPERATURE RANGE	-60 TO +250	°F
THERMAL COEFFICIENT OF SENSITIVITY	0.06	%/°F
SEAL	EPOXY/WELDED	
ELECTRICAL		
EXCITATION (COMPLIANCE) VOLTAGE RANGE	+20 to +30	VDC
EXCITATION CURRENT RANGE	2 to 20	mA
OUTPUT IMPEDANCE, NOM.	100	OHMS
OUTPUT BIAS VOLTAGE, +/- 2 VOLTS	10	VDC
DISCHARGE TIME CONSTANT, MIN.	0.5	SEC.
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP	POSITIVE GOING	

[1] MEASURED AT 1 G RMS AT 100 HZ PER ISA RP 37.2

[2] A CALIBRATION CERTIFICATE TRACEABLE TO NIST IS SUPPLIED WITH EACH INSTRUMENT.