



SCALE	4X	REV	A	DATE	10/19/99	ECN	2646			
DATE	10/23/98	PART NO.	MODEL 3032A							
DRAWN	N.C.	CHECKED	R.A.	MAT'L						
APPROVED					NEXT ASSEMBLY	USED ON				MODEL 3032A
TITLE							DWG NO.			
							127-3032A			
OUTLINE/INSTALLATION DRAWING, MODEL 3032A							SHEET 1			OF 1



Dynamic Transducers and Systems

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SPECIFICATIONS

MODEL 3032A 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	TITANIUM	
ELEMENT TYPE	QUARTZ SHEAR	
PERFORMANCE		
SENSITIVITY, +/-10% [1]	10	mV/G
RANGE F.S. FOR +/- 5 VOLTS OUT	+/- 500	G's
FREQUENCY RESPONSE, +/- 10%	1 to 10,000	Hz
FREQUENCY RESPONSE, +/- 3db	.66 TO 12,000	Hz
MOUNTED RESONANT FREQUENCY, NOM.	80	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/ $\mu\sigma$
ENVIRONMENTAL		
MAXIMUM VIBRATION	1000	G's, RMS
MAXIMUM SHOCK	1500	G's, PEAK
TEMPERATURE RANGE	-60 TO +250	$^{\circ}$ F
THERMAL COEFFICIENT OF SENSITIVITY	0.06	%/ $^{\circ}$ 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	7.0 to 9.0	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.