



PORT PREPARATION:
 DRILL #3 (\varnothing .213) X .45 MIN DEPTH
 TAP 1/4-28 UNF-2B X .35 MIN DEPTH

4. POWER GROUND ISOLATED FROM CASE GROUND, 10 MEGOHMS, MIN.
3. WEIGHT: 160 GRAMS.
2. SEAL: HERMETIC
1. HOUSING & CONNECTOR MATERIAL: 316L STAINLESS STEEL.

DYTRAN INSTRUMENTS, INC.		MASTER ONLY IF IN RED		CHATSWORTH, CA.	
SCALE	1X	REV	A	DATE	3-5-03
DATE	3/31/00	PART NO.	MODEL 3202A1		
DRAWN	N.C.	CHECKED	R.A.	MAT'L	-
APPROVED	PML 9.23.05		NEXT ASSEMBLY	USED ON	3202A1
TITLE				DWG NO.	
OUTLINE/INSTALLATION DRAWING, MODEL 3202A1 500 mV/G ACCELEROMETER				127-3202A1	
SHEET 1 OF 1					



SPECIFICATIONS

MODEL 3202A1 LIVM ACCELEROMETER

SPECIFICATION	VALUE	UNITS
PHYSICAL		
WEIGHT	160	GRAMS
SIZE, L x D x H	2.26 x 1.44 x 1.12	IN
MOUNTING PROVISION, (MOD 6523 SCREW PROVIDED)	THRU HOLE, CAPTIVE 1/4-28 SCREW	
ELECTRICAL CONNECTOR, RADIAL (MIL-C-5015)	2-PIN MILITARY 10SL-4P, HERMETIC	
MATERIAL CASE/CONNECTOR	316L	ST. STEEL
PERFORMANCE		
SENSITIVITY, $\pm 5\%$ [1]	500	mV/G
RANGE FOR ± 5 VOLTS OUT	± 10	G
FREQUENCY RESPONSE, $\pm 5\%$.5 - 5,000	Hz
MOUNTED RESONANT FREQUENCY, TYP.	25	kHz
EQUIV. ELECTRICAL NOISE FLOOR, (RESOLUTION)	.0002	G RMS
AMPLITUDE NON-LINEARITY (ZERO BASED BEST FIT ST.LINE METHOD)	2.0	% F.S., MAX.
TRANSVERSE SENSITIVITY, MAX.	5	PERCENT
STRAIN SENSITIVITY	.0015	G's PER MICROSTRAIN @ 250/ μ
ENVIRONMENTAL		
MAXIMUM VIBRATION	100	G's, RMS
MAXIMUM SHOCK	1500	G's, PEAK
TEMPERATURE RANGE	-60 TO +250	$^{\circ}$ F
ENVIRONMENTAL SEAL	GLASS TO METAL/WELDED,HERMETIC	
ELECTRICAL		
COMPLIANCE (SUPPLY) VOLTAGE RANGE [2]	+20 to +30	VDC
EXCITATION CURRENT RANGE	2 to 20	mA
OUTPUT IMPEDANCE, NOM.	200	OHMS
OUTPUT BIAS VOLTAGE RANGE	10 to 12.5	VDC
DISCHARGE TIME CONSTANT, MIN.	1.0	SEC.
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP	POSITIVE GOING	
POWER/SIGNAL GROUND to CASE ISOLATION, MIN.	10	MEGOHMS

SUPPLIED ACCESSORIES:

(1) Model 6523, 1/4-28 MOUNTING SCREW

NOTES:

- [1] MEASURED AT 100 Hz, 1 G RMS. A CALIBRATION CERTIFICATE TRACEABLE TO **NIST** IS SUPPLIED WITH EACH INSTRUMENT.
- [2] THE USE OF DYTRAN LIVM CURRENT SOURCE POWER UNITS IS RECOMMENDED. **DO NOT CONNECT THIS INSTRUMENT TO A SOURCE OF DC VOLTAGE WITHOUT CURRENT LIMITING PROTECTION, 20 mA MAX.** TO DO SO WILL DESTROY THE INTERNAL AMPLIFIER AND VOID THE WARRANTY.