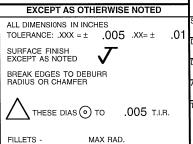


- 1) POWER GROUND IS INSULATED FROM CASE BY >10 MEGOHMS.
- 2) SEAL: HERMETIC.



OUTLINE/INSTALLATION DRAWING, MODELS 3166B, 3166B1 & 3166B2

127-3166B

SHEET 1 OF



## **SPECIFICATIONS**

## MODELS 3166B, 3166B1 & 3166B2 LIVM ACCELEROMETER

SPECIFICATION		VALUE		<u>UNITS</u>
PHYSICAL				
WEIGHT SIZE, L x W x H MOUNTING PROVISION, (MOD 6523 SCREW PROVIDED) ELECTRICAL CONNECTOR, RADIAL MATERIAL CASE/CONNECTOR ELEMENT STYLE		228 2.90 x 1.00 x 1.21 THRU HOLE, CAPTIV 2-PIN MILITARY 10SI 316L CERAMIC PLANAR S	/E 1/4-28 SCREW L-4P, HERMETIC	GRAMS IN ST. STEEL
PERFORMANCE				
SENSITIVITY, ± 5% 3166B/3166B1/B2 [1] RANGE FOR ± 5 VOLTS OUT, 3166B/ 3166B1/ 3166B2 FREQUENCY RESPONSE, ± 5%, 3166B/ 3166B1/ 3166B2	FOR ± 5 VOLTS OUT. 3166B/3166B1/3166B2		100/500/10 ±50/±10/±500 .5 - 5,000/.5 - 1,000/.5-5,000	
JSGB/ 3166B/ 3166B2 INTED RESONANT FREQUENCY, TYP. IV. ELECT. NOISE FLOOR, (RESOLUTION) 3166B/ 3166B1/ 3166B2 LITUDE NON-LINEARITY (ZERO BASED BEST FIT ST.LINE METHOD) NSVERSE SENSITIVITY, MAX. AIN SENSITIVITY		.2 -12,000 /.2 -3,000/.2-12,000 21 (16) .00006/ .00002/ .001 2.0 5 .0001 G's PER MICROS		Hz kHz G RMS % F.S., MAX. PERCENT STRAIN @ 250/μσ
ENVIRONMENTAL				
MAXIMUM VIBRATION MAXIMUM SHOCK TEMPERATURE RANGE ENVIRONMENTAL SEAL	GLASS T	350 3000 -60 TO +250 TO METAL/WELDED,H	ERMETIC	G's, RMS G's, PEAK <sup>O</sup> F
ELECTRICAL				
COMPLIANCE (SUPPLY) VOLTAGE RANGE [2] EXCITATION CURRENT RANGE OUTPUT IMPEDANCE, NOM. OUTPUT BIAS VOLTAGE, DISCHARGE TIME CONSTANT, MIN. 3166B (3166B1) OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP POWER/SIGNAL GROUND to CASE ISOLATION, MIN		+20 to +30 2 to 20 200 10.0 to 12.0 1.0 (1.0) POSITIVE GOING 10		VDC mA OHMS VDC SEC. MEGOHMS

## **SUPPLIED ACCESSORIES:**

- (1) Model 6523, 1/4-28 captive, socket head cap screw
- [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.