

## **SPECIFICATIONS**

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

SPECIFICATION	VALUE	UNITS
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, CAPTIVE 1/4-28 SCF 2-PIN MILITARY 10SL-4P, HERME 316L CERAMIC PLANAR SHEAR	
PERFORMANCE		
SENSITIVITY, ± 5% 3166B/3166B1/B2 [1] RANGE FOR ± 5 VOLTS OUT, 3166B/ 3166B1/ 3166B2 FREQUENCY RESPONSE, ± 10%, 3166B/ 3166B1/ 3166B2 MOUNTED RESONANT FREQUENCY EQUIV. ELECT. NOISE FLOOR, (RESOLUTION) 3166B/ 3166B1/ 316 AMPLITUDE NON-LINEARITY (ZERO BASED BEST FIT ST.LINE METRANSVERSE SENSITIVITY, MAX. STRAIN SENSITIVITY		mV/G G Hz kHz G RMS % F.S., MAX. PERCENT G/με @ 250/με
ENVIRONMENTAL		
MAXIMUM VIBRATION MAXIMUM SHOCK TEMPERATURE RANGE ENVIRONMENTAL SEAL	350 3000 -60 TO +250 GLASS TO METAL/WELDED,HERMETIC	G's, RMS G's, PEAK <sup>°</sup> F
ELECTRICAL		
COMPLIANCE (SUPPLY) VOLTAGE RANGE [2] EXCITATION CURRENT RANGE OUTPUT IMPEDANCE, NOM. OUTPUT BIAS VOLTAGE DISCHARGE TIME CONSTANT OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP POWER/SIGNAL GROUND to CASE ISOLATION, MIN	+20 to +30 2 to 20 200 +11 to +13 0.9 to 2.0 POSITIVE GOING 10	VDC mA OHMS VDC SEC. GIGAOHMS

## **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  ${\bf NIST}$  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.

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