

# SPECIFICATIONS

## MODEL 3063B TRIAXIAL LIVM ACCELEROMETER

SPECIFICATION	VALUE	UNITS
<b>PHYSICAL</b>		
WEIGHT	245	GRAMS
SIZE (LENGTH x WIDTH x HEIGHT), not incl. connector [1]	1.625 x 1.625 x .950	INCHES
MOUNTING PROVISION [1]	CAPTIVE 1/4-28 MOUNTING SCREW	
CONNECTOR, COAXIAL, RADIALLY MOUNTED, 4-PIN	MIL-C-26482	8-4P
CASE MATERIAL	300 SERIES SS	
ELEMENT TYPE	PLANAR SHEAR, CERAMIC	
<b>PERFORMANCE</b>		
SENSITIVITY, ( $\pm 5\%$ ) [2]	100	mV/G
RANGE F.S.	50	G's
RESOLUTION, (Electrical noise)	.00006	G's, RMS
FREQUENCY RESPONSE $\pm 5\%$	0.5 to 3000	Hz
$\pm 10\%$	0.3 to 5000	Hz
DISCHARGE TIME CONSTANT	0.9 to 2.0	SEC
MOUNTED RESONANT FREQUENCY	>25	kHz
AMPLITUDE NON-LINEARITY (ZERO BASED BEST FIT ST.LINE METHOD)	$\pm 1.0$	% F.S., MAX.
TRANSVERSE SENSITIVITY, MAX.	5	PERCENT
STRAIN SENSITIVITY	.001	G's PER MICROSTRAIN @ 250/ $\mu\sigma$
<b>ENVIRONMENTAL</b>		
MAXIMUM VIBRATION	1000	G's, RMS
MAXIMUM SHOCK	2000	G's, PEAK
TEMPERATURE RANGE	-65 to +250	DEG.
THERMAL COEFFICIENT OF SENSITIVITY	.03	%/ $^{\circ}$ F
ENVIRONMENTAL SEAL	WELDED/GLASS TO METAL SEAL/O-RINGS	HERMETIC
<b>ELECTRICAL</b>		
BIAS VOLTAGE RANGE	+11 to +13	VDC
SUPPLY VOLTAGE RANGE [3]	+18 to +30	VDC
SUPPLY CURRENT RANGE	2 to 20	mA
OUTPUT IMPEDANCE, NOM. OHMS	150	
CASE GROUND ISOLATION, SIG/PWR GROUND PIN TO CASE, MIN. GIGAOHMS	10	

### SUPPLIED ACCESSORIES:

(1) MODEL 6524 MOUNTING SCREW, 1/4-28 x .89 LONG  
**OPTIONAL ACCESSORY:** MODEL 6529 IMMERSION PROOF SEALING BOOT

### NOTES:

- 1) THE HEAD OF MODEL 6254 MOUNTING SCREW RECESSES INTO THE BODY OF THE ACCELEROMETER RESULTING IN NO INCREASE IN THE OVERALL HEIGHT.
- 2) A CALIBRATION CERTIFICATE TRACEABLE TO **NIST** IS SUPPLIED WITH EACH INSTRUMENT.
- 3) DO NOT APPLY POWER TO THIS INSTRUMENT WITHOUT CURRENT LIMITING IN THE RANGE OF 20 mA MAXIMUM. TO DO SO WILL IMMEDIATELY DESTROY THE INTEGRAL AMPLIFIER. IT IS SUGGESTED THAT ONLY DYTRAN OR DYTRAN APPROVED POWER UNITS BE UTILIZED FOR POWERING THIS INSTRUMENT.