





## Dynamic Transducers and Systems

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### SPECIFICATIONS

#### MODEL 3225M7 MINIATURE LIVM ACCELEROMETER

SPECIFICATION	VALUE	UNITS
<b>PHYSICAL</b>		
WEIGHT	0.6	GRAMS
SIZE (DIA x LENGTH HEX x HEIGHT)	0.25 x 0.43 x .150	INCHES
MOUNTING PROVISION	Flat mounting surface for adhesive mount	
CONNECTOR, RADially MOUNTED [1]	3-56	JACK
CASE MATERIAL	Titanium	
SENSING ELEMENT TYPE	Quartz, planar shear	
CABLE (INCLUDED)	Model 6003B10, coaxial terminating in 10-32 plug, 10 ft. long	
<b>PERFORMANCE</b>		
SENSITIVITY, $\pm 10\%$ [2] [3]	1.0, nom.	mV/G
RANGE F.S. FOR $\pm 5$ VOLTS OUT	$\pm 5000$ (out of range)	G's
FREQUENCY RESPONSE, $\pm 10\%$ [3]	1.6 to 10,000	Hz
MOUNTED RESONANT FREQUENCY, NOM.	40	kHz
EQUIVALENT ELECTRICAL NOISE FLOOR	.007	G's RMS
AMPLITUDE NON-LINEARITY (ZERO BASED BEST-FIT ST.LINE METHOD)	2.0	% F.S., MAX.
TRANSVERSE SENSITIVITY, MAX.	5	PERCENT
STRAIN SENSITIVITY	.0005	G's per microstrain @ 250/ $\mu\sigma$
<b>ENVIRONMENTAL</b>		
MAXIMUM VIBRATION	400	G's, RMS
MAXIMUM SHOCK	5000	G's, PEAK
TEMPERATURE RANGE	-60 TO 250	$^{\circ}\text{F}$
THERMAL COEFFICIENT OF SENSITIVITY	.03	%/ $^{\circ}\text{F}$
ENVIRONMENTAL SEAL	Hermetic, TIG welded & glass-to-metal seal connector	
<b>ELECTRICAL</b>		
SUPPLY CURRENT/COMPLIANCE VOLTAGE RANGE [4]	2 to 20/+18 to +30	mA/Volts
OUTPUT IMPEDANCE, TYP.	100	Ohms
BIAS VOLTAGE	+7 to +9	VDC
DISCHARGE TIME CONSTANT, NOM.	0.3	Sec
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP		Positive
CASE GROUNDING	Case is grounded to electrical power ground	

#### SUPPLIED ACCESSORIES:

- (1) MODEL 6003B10 COAXIAL CABLE
- (1) MODEL 6591A INSTALLATION REMOVAL WRENCH
- (1) 6198 PETRO WAX

#### NOTES:

- [1] CONNECTOR MATES ONLY WITH 10-32 MICRO COAXIAL JACK.
- [2] MEASURED AT 100 Hz, 1 G RMS PER ISA RP37.2.
- [3] ACTUAL SENSITIVITY IS GIVEN ON A CALIBRATION CERTIFICATE TRACEABLE TO **NIST**, SUPPLIED WITH EACH INSTRUMENT.
- [4] DO NOT APPLY POWER TO THIS DEVICE WITHOUT CURRENT LIMITING, 20 mA MAX. TO DO SO WILL DESTROY THE INTEGRAL IC AMPLIFIER.

### OPERATING INSTRUCTIONS