



ACTUAL SIZE

3. CASE AND CONNECTOR MATERIAL: TITANIUM.
2. WEIGHT LESS CABLE: 0.6 GRAMS.
1. ARROW INDICATES SENSE AND DIRECTION OF INPUT ACCELERATION FOR POSITIVE GOING OUTPUT SIGNAL.

EXCEPT AS OTHERWISE NOTED	
ALL DIMENSIONS IN INCHES TOLERANCE: .XXX = ± .XX = ±	
SURFACE FINISH EXCEPT AS NOTED	✓
BREAK EDGES TO DEBURR RADIUS OR CHAMFER	
THESE DIAS TO T.I.R.	
FILLETS -	MAX RAD.



**MASTER  
ONLY IF IN RED**

CHATSWORTH, CA.

SCALE 5X	REV A	DATE 3/30/05	ECN		
DATE 4/9/03	PART NO.				
DRAWN N.C.	CHECKED R.A.	MAT'L			
APPROVED FAL 3-31-05	NEXT ASSEMBLY	USED ON			
TITLE <b>OUTLINE/INSTALLATION DRAWING, MODEL 3225M5</b>			DWG NO. <b>127-3225M5</b>		
			SHEET 1 OF 1		



## Dynamic Transducers and Systems

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### SPECIFICATIONS

#### MODEL 3225M5 MINIATURE LIVM ACCELEROMETER

SPECIFICATION	VALUE	UNITS
PHYSICAL		
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	
PERFORMANCE		
SENSITIVITY, ±10% [2] [3]	1.0	mV/G
RANGE F.S. FOR ± 5 VOLTS OUT	±5000	G's
FREQUENCY RESPONSE, ± 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/μσ
ENVIRONMENTAL		
MAXIMUM VIBRATION	400	G's, RMS
MAXIMUM SHOCK	5000	G's, PEAK
TEMPERATURE RANGE	-60 TO 250	°F
THERMAL COEFFICIENT OF SENSITIVITY	.03	%/°F
ENVIRONMENTAL SEAL	Hermetic, TIG welded & glass-to-metal seal connector	
ELECTRICAL		
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 6003A03 COAXIAL CABLE
- (1) MODEL 6192 INSTALLATION REMOVAL WRENCH

#### NOTES:

- [1] CONNECTOR MATES ONLY WITH DYTRAN CABLE MODEL 6003AXX (XX IS LENGTH IN FEET)
- [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