



- 3. CASE AND CONNECTOR MATERIAL: TITANIUM.
- 2. WEIGHT LESS CABLE: 0.85 GRAMS.
- 1. ARROW INDICATES SENSE AND DIRECTION OF INPUT ACCELERATION FOR POSITIVE GOING OUTPUT SIGNAL.

<b>DYTRAN</b> INSTRUMENTS, INC.		CHATSWORTH, CA.			
SCALE	5X	REV	A	DATE	3/30/05
DATE	2/22/05	ECN	N/A		
DRAWN	N.C.	CHECKED	R.A.	MAT'L	
APPROVED	NEXT ASSEMBLY		USED ON		
TITLE				DWG NO.	
<b>OUTLINE/INSTALLATION DRAWING, MODEL 3225F1T</b>				<b>127-3225F1T</b>	
				SHEET 1 OF 1	



# Dynamic Transducers and Systems

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## SPECIFICATIONS

### MODEL 3225F1T MINIATURE LIVM ACCELEROMETER

SPECIFICATION	VALUE	UNITS
<b>PHYSICAL</b>		
WEIGHT	0.85	GRAMS
SIZE (DIA x LENGTH HEX x HEIGHT)	0.25 x 0.43 x .215	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	
<b>PERFORMANCE</b>		
SENSITIVITY, ±10% [2] [3]	10.0	mV/G
RANGE F.S. FOR ±5 VOLTS OUT	±500	G's
FREQUENCY RESPONSE, ±10% [3]	1.6 to 10,000	Hz
MOUNTED RESONANT FREQUENCY	>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
<b>ENVIRONMENTAL</b>		
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	
<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	0.3 to 0.6	Sec
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP		Positive
CASE GROUNDING	Case is grounded to electrical power ground	
IEPE sensor with TEDS feature	per IEEE 1451.4	

### SUPPLIED ACCESSORIES:

- (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.