



Dynamic Transducers and Systems

21592 Marilla St. • Chatsworth, CA 91311 • Phone 818-700-7818
www.dytran.com • e-mail: info@dytran.com

SPECIFICATIONS

MODEL 3225F3 MINIATURE LIVM ACCELEROMETER

SPECIFICATION	VALUE	UNITS
PHYSICAL		
WEIGHT	0.6	GRAMS
SIZE (DIA x LENGTH HEX x HEIGHT)	0.31 x 0.48 x .19	INCHES
MOUNTING PROVISION	Flat mounting surface for adhesive mount	
CONNECTOR	36" INTEGRATED CABLE TO 10-32 RECEPTACLE	
CASE MATERIAL	Titanium	
SENSING ELEMENT TYPE	Quartz, planar shear	
PERFORMANCE		
SENSITIVITY, $\pm 10\%$ [1] [2]	10.0	mV/G
RANGE F.S. FOR ± 5 VOLTS OUT	± 500	G's
FREQUENCY RESPONSE, $\pm 10\%$ [2]	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/ $\mu\sigma$
ENVIRONMENTAL		
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	EPOXY, TIG welded & glass-to-metal seal connector	
ELECTRICAL		
SUPPLY CURRENT/COMPLIANCE VOLTAGE RANGE [3]	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 ISOLATION	10	M Ω MIN

SUPPLIED ACCESSORIES:

[1] MODEL 6591A INSTALLATION REMOVAL WRENCH

[2] MODEL 6298 MOUNTING WAX

NOTES:

[1] MEASURED AT 100 Hz, 1 G RMS PER ISA RP37.2.

[2] ACTUAL SENSITIVITY IS GIVEN ON A CALIBRATION CERTIFICATE TRACEABLE TO **NIST**, SUPPLIED WITH EACH INSTRUMENT.

[3] DO NOT APPLY POWER TO THIS DEVICE WITHOUT CURRENT LIMITING, 20 mA MAX. TO DO SO WILL DESTROY THE INTEGRAL IC AMPLIFIER.

OPERATING INSTRUCTIONS