



WIRE COLOR	FUNCTION
BLACK	X (1) AXIS SIGNAL / POWER
RED	Y (2) AXIS SIGNAL / POWER
WHITE	Z (3) AXIS SIGNAL / POWER
YELLOW	SIGNAL GROUND

Mass, without cable: 2.5 grams
 Sensitivity: 10mV/g
 Housing Material: Titanium Alloy

EXCEPT AS OTHERWISE NOTED
 ALL DIMENSIONS IN INCHES
 TOLERANCE: XXX = ± .005 .XX = ± .01
 SURFACE FINISH EXCEPT AS NOTED 63/√
 BREAK EDGES TO DEBURR .005 / .015
 RADIUS OR CHAMFER
 FILLETS: .005 MAX R

DYTRAN		CHATSWORTH, CA	
INSTRUMENTS, INC.			
SCALE	2:1	REV	-
DATE	2/8/2005	DATE	-
DRAWN	CHECKED	ECN	-
APPROVED	NEXT ASSEMBLY	PART NO.	
TITLE		USED ON	
OUTLINE / INSTALLATION DRAWING		DWG NO.	
		127-3243A	
		SHEET 1 OF 1	



SPECIFICATIONS, MODEL 3243A TRIAXIAL ACCELEROMETER

SPECIFICATIONS	VALUE	UNITS
PHYSICAL		
WEIGHT, without cable	2.5	GRAMS
SIZE (HEIGHT x WIDTH)	.28 x .36	INCHES
MOUNTING	ADHESIVE MOUNT	
CABLE	INTEGRAL, SIDE EXIT	
CABLE LENGTH	2	METERS
MATERIAL, HOUSING/CONNECTOR	TITANIUM ALLOY	
PERFORMANCE		
SENSITIVITY, -10 +15% [1]	10.0	mV/g
RANGE, F.S. (each axis)	+/- 500	g
FREQUENCY RESPONSE, -5 / +15%	1.5 to 10000	Hz
ELEMENT NATURAL FREQUENCY	>40	kHz
EQUIVALENT ELECTRICAL NOISE	.007	g rms
LINEARITY [2]	1	%F.S.
TRANSVERSE SENSITIVITY, MAX,	5	%
SIGNAL POLARITY	POSITIVE FOR MOTION IN DIRECTION OF ARROWS ON HOUSING	
ENVIRONMENTAL		
MAXIMUM VIBRATION	+/- 600	g
MAXIMUM SHOCK	5000	g
TEMPERATURE RANGE	-60 to +250	°F
ENVIRONMENTAL SEAL	HERMETIC	
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/°F
ENVIRONMENTAL		
SUPPLY CURRENT RANGE, (each axis) [3]	2 to 20	mA
COMPLIANCE (SUPPLY) VOLTAGE RANGE (each axis)	+18 to +30	VDC
OUTPUT IMPEDANCE, TYP.	100	OHMS
OUTPUT BIAS VOLTAGE	7 to 9	VDC
DISCHARGE TIME CONSTANT	0.3 to 0.7	SEC
GROUND ISOLATION	CASE GROUNDED	

[1] Reference sensitivity measured at 100 Hz, 1 g rms per ISA RP 37.2

[2] Linearity is % of specified full scale (or any lesser full scale range), zero-based best fit straight line method.

[3] Power only with Dytran LIVM power unit or other Dytran-compatible constant current type power unit. If power is applied without current limiting protection, the internal amplifier will be immediately destroyed.