



4 WEIGHT: 7.2 GRAMS.

$\triangle 3$  XX=LENGTH IN FEET

2. + SIGNS INDICATE SENSE AND DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT.

1. HOUSING & CONNECTOR MATERIAL: TITANIUM ALLOY

EXCEPT AS OTHERWISE NOTED

ALL DIMENSIONS IN INCHES  
 TOLERANCE: .XXX = ± .XX = ±.01

SURFACE FINISH  
 EXCEPT AS NOTED ✓

BREAK EDGES TO DEBURR  
 RADIUS OR CHAMFER

$\triangle$  THESE DIAS  $\odot$  TO T.I.R.

FILLETS - MAX RAD.



CHATSWORTH, CA.

SCALE	4X	REV	DATE	ECN	
DATE	8/15/00	PART NO.	127-3053B1		
DRAWN	N.C.	CHECKED	R.A.	MAT'L	-
APPROVED		NEXT ASSEMBLY	-	USED ON	3053B1
TITLE				DWG NO.	
OUTLINE INSTALLATION DRAWING, MODEL 3053B1, 5 m/VG				127-3053B1	
SHEET 1 OF 1					



**SPECIFICATIONS, MODEL 3053B1 TRIAXIAL ACCELEROMETER**

<b>SPECIFICATIONS</b>	<b>VALUE</b>	<b>UNITS</b>
<b>PHYSICAL</b>		
WEIGHT	6.0	GRAMS
SIZE (HEIGHT x WIDTH x DEPTH)	0.35 x .50 x .50	INCHES
MOUNTING [1]	ADHESIVE MOUNT	
CONNECTOR	4-PIN [2]	
MATERIAL, HOUSING/CONNECTOR	TITANIUM ALLOY	
<b>PERFORMANCE</b>		
SENSITIVITY, -10 +15% [3]	5.0	mV/G
RANGE, F.S. (each axis)	+/- 1000	G
FREQUENCY RESPONSE, +/- 10%	2 to 5000	Hz
ELEMENT NATURAL FREQUENCY, NOM.	30	kHz
EQUIVALENT ELECTRICAL NOISE	.014	G, RMS
LINEARITY [4]	1	%F.S.
TRANSVERSE SENSITIVITY, MAX,	5	%
SIGNAL POLARITY	POSITIVE FOR MOTION IN DIRECTION OF ARROWS ETCHED ON HOUSING	
<b>ENVIRONMENTAL</b>		
MAXIMUM VIBRATION	+/- 600	G
MAXIMUM SHOCK	5000	G
TEMPERATURE RANGE	-60 to +250	°F
ENVIRONMENTAL SEAL	HERMETIC	
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/°F
<b>ENVIRONMENTAL</b>		
SUPPLY CURRENT RANGE, (each axis) [5]	2-to 20	mA
COMPLIANCE (SUPPLY) VOLTAGE RANGE (each axis)	+18 to +30	VDC
OUTPUT IMPEDANCE, TYP.	100	OHMS
OUTPUT BIAS VOLTAGE, NOM.	+10	VDC
DISCHARGE TIME CONSTANT, NOM.	0.5	SEC
GROUND ISOLATION	10	MEGOHMS (MIN)

[1] Case ground isolation is achieved by internal means.

[2] Connector mates with Dytran cable assy. Model 6430AXX. (XX = length in feet)

[3] Reference sensitivity measured at 100 Hz, 1 G RMS per ISA RP 37.2

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

[5] 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.