



- 3. MATERIAL: 300 SERIES STAINLESS STEEL.
- 2. WEIGHT: 8 GRAMS.
- 1. RECOMMENDED MOUNTING TORQUE ON 3/8 IN. HEX: 20 TO 25 LB.-INCHES.

**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.

		CHATSORTH, CA.						
		SCALE	2X	REV	-	DATE	-	ECN
DATE		6/2/98		PART NO.		MODEL 3019A		
DRAWN		N.C.		CHECKED		R.A.		
APPROVED		NEXT ASSEMBLY			USED ON		3019A	
TITLE							DWG NO.	
<b>OUTLINE/INSTALLATION DRAWING, HIGH FREQUENCY ACCELEROMETER MODEL 3019A</b>							<b>127-3019A</b>	
							SHEET 1 OF 1	

**SPECIFICATIONS  
MODEL 3019A LIVM ACCELEROMETER**

SPECIFICATION	VALUE	UNITS
<b>PHYSICAL</b>		
WEIGHT	8.0	Grams
SIZE, HEX x HEIGHT	.375 x 0.73	Inches
MOUNTING PROVISION	INTEGRAL STUD	1/4-28 X .20 long
CONNECTOR, TOP MOUNTED	10-32	Coaxial
MATERIAL, BODY & CONNECTOR	300 Series	Stainless Steel
<b>PERFORMANCE</b>		
SENSITIVITY, $\pm 5\%$ [1]	10.0	mV/G
RANGE F.S. FOR $\pm 5$ VOLTS OUTPUT	$\pm 500$	G's
FREQUENCY RANGE, $\pm 5\%$	1.0 to 10,000	Hz
$\pm 2$ db	.8 to 22,000	Hz
$\pm 3$ db	.3 to 25,000	Hz
RESONANT FREQUENCY, NOM.	50	kHz
EQUIVALENT ELECTRICAL NOISE FLOOR	.007	G's RMS
LINEARITY [2]	$\pm 2\%$	% F.S.
TRANSVERSE SENSITIVITY, MAX.	5	%
STRAIN SENSITIVITY	.012	G's/ $\mu$ @ 250 $\mu$
<b>ENVIRONMENTAL</b>		
MAXIMUM VIBRATION/SHOCK	1000/3000	$\pm$ G's/G's PEAK
TEMPERATURE RANGE	-60 to +300	$^{\circ}$ F
SEAL, HERMETIC	Glass-to-metal and TIG welded	
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/ $^{\circ}$ F
<b>ELECTRICAL</b>		
SUPPLY CURRENT/COMPLIANCE VOLTAGE RANGE [3]	2 to 20/+18 to +30	mA/Volts
OUTPUT IMPEDANCE, TYP.	100	Ohms
BIAS VOLTAGE, +10 VOLTS NOM.	+9 to +10.5	VDC
DISCHARGE TIME CONSTANT, NOM.	0.5	Sec
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP		Positive
ELECTRICAL ISOLATION, CASE GROUND TO MOUNTING SURFACE		10 Megohms, min.

[1] Measured at 100 Hz, 1 G RMS per ISA RP 37.2.

[2] Measured using zero-based best straight line method, % of F.S. or any lesser range.

[3] Do not apply power to this device without current limiting, 20 mA MAX. To do so will destroy the integral IC amplifier.