



4. A LIGHT COATING OF SILICONE GREASE BETWEEN MOUNTING SURFACES WILL ENSURE GOOD HIGH FREQUENCY TRANSMISSABILITY.

3. CASE MATERIAL-ANODIZED ALUMINUM. CONNECTOR MATERIAL-300 SERIES STAINLESS STEEL.

2. MOUNTING TORQUE ON 9/16 HEX: 15 TO 20 LB-INCHES. DO NOT OVERTORQUE.

1. WEIGHT-10 GRAMS.

ALL PART NUMBER LETTERSUFFIXES ARE TO BE INTERPRETED AS FOLLOWS:

I.E. - 107-0000-01 (X)
M - MACHINED ONLY (UNPLATED) **G** - MATERIAL HAS BEEN GRAINED
P - PLATED/PAINTED **S** - MATERIAL HAS BEEN SAWCUT
H - HEAT TREATED **E** - ENVIRONMENTAL TEST

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.	

		CHATSWORTH, CA.	
DATE 3/30/98	PART NO.		
DRAWN N.C.	CHECKED R.A.	MAT'L	
APPROVED	NEXT ASSEMBLY	USED ON	3041A2 & 3041A4
TITLE			DWG NO.
OUTLINE/INSTALLATION DRAWING, MODELS 3041A2 AND 3041A4			127-3041A2
			SHEET 1 OF 1



SPECIFICATIONS

MODELS 3041A1, 3041A2 & 3041A4 HIGH SENSITIVITY LOW MASS LIVM ACCELEROMETERS with channel "locate" feature

SPECIFICATION	VALUE	UNITS
PHYSICAL (all models)		
WEIGHT	10.0	GRAMS
SIZE (HEX x HEIGHT)	.56 x .70	INCHES
MOUNTING PROVISION	10-32, UNF-2B TAPPED HOLE AT BOTTOM	
CONNECTOR, COAXIAL, RADially MOUNTED	10-32, UNF-2A	
CASE /CONNECTOR MATERIAL	ANODIZED ALUMINUM/STAINLESS STEEL	
PERFORMANCE		
SENSITIVITY, -5%/+10%, MODEL 3041A2 (3041A4) {3042A1}	100 (500) {10}	mV/G
RANGE F.S. FOR +/- 5 VOLTS OUT 3041A2 (3041A4) {3041A1}	±50 (±10) {±500}	G's
FREQUENCY RESPONSE, ±5%	1 to 3000	Hz
MOUNTED RESONANT FREQUENCY, NOM. (3041A2 & 3041A4)	25	kHz
PHASE RESPONSE, ±5 DEGREES PHASE SHIFT	1 to 3000	Hz
EQUIV. ELECTRICAL NOISE (RESOLUTION) 3041A2 (3041A4) {3041A1}	.0003 (.0001) {.003}	G, RMS
AMPLITUDE NON-LINEARITY (ZERO BASED BEST FIT ST.LINE METHOD)	2.0	% F.S., MAX.
TRANSVERSE SENSITIVITY, MAX.	5	PERCENT
STRAIN SENSITIVITY	.001	G's PER MICROSTRAIN @ 250/μ
ENVIRONMENTAL (all models)		
MAXIMUM VIBRATION	100	G's, RMS
MAXIMUM SHOCK	5000	G's, PEAK
TEMPERATURE RANGE	-60 TO +250	°F
THERMAL COEFFICIENT OF SENSITIVITY	0.04	%/°F
SEAL, INNER ACCELEROMETER ELEMENT	HERMETIC, WELDED/GLASS TO METAL	
ELECTRICAL (all models)		
EXCITATION (COMPLIANCE) VOLTAGE RANGE	+20 to +30	VDC
EXCITATION CURRENT RANGE (OVER 4 mA RECOMMENDED) [3]	2 to 20	mA
OUTPUT IMPEDANCE, NOM.	100	OHMS
OUTPUT BIAS VOLTAGE, NOM.	12	VDC
DISCHARGE TIME CONSTANT, MIN.	1	SEC.
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP	POSITIVE GOING	
GROUND ISOLATION, SIG/PWR GND TO CASE (@50 VDC)	10	MEGOHMS

SUPPLIED ACCESSORIES:

(1) MODEL 6200 BERYLLIUM COPPER MOUNTING STUD (1)

OPTIONAL ACCESSORIES

MODEL 6228 ADHESIVE MOUNTING BASE, 1/2 IN. HEX
MOD 6299 PLASTIC MOUNTING STUD (1) MODEL 6298 "PETRO" MOUNTING WAX

NOTES:

[1] RECOMMENDED POWER UNIT FOR MODEL SERIES 3041A IS MODEL 4141. THIS 16 CHANNEL UNIT HAS PROVISIONS FOR INTERRUPTING THE POWER MOMENTARILY AT EACH CHANNEL WHICH CAUSES THE INDICATOR LED TO BLINK ON AND OFF FOR EASY CHANNEL IDENTIFICATION.

[2] A CALIBRATION CERTIFICATE TRACEABLE TO NIST IS SUPPLIED WITH EACH INSTRUMENT.

[3] WE RECOMMEND THE USE OF 4 mA MINIMUM SENSOR DRIVE CURRENT FOR ADEQUATE INDICATOR LAMP BRILLIANCE.