



5. SUGGESTED ADHESIVE TYPE FOR MODEL 3145A1G-CYANOACRYLATE "INSTANT" BOND.
4. TO INSTALL MOD 3145A1, TORQUE IN PLACE WITH 10 OZ.-INCHES.
3. WEIGHT-MOD 3145A-2.3 GRAMS., MOD 3145AG-2.1 GRAMS
2. SEAL-HERMETIC, ALL WELDED.
1. 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	
 THESE DIAS  TO	T.I.R.
FILLETES -	MAX RAD.



CHATSWORTH, CA.

SCALE	4X	REV	-	DATE	-	ECN	-		
DATE	6/5/00	PART NO.							
DRAWN	N.C.	CHECKED	R.A.	MAT'L					
APPROVED	NEXT ASSEMBLY				USED ON				3145A1 & 3145A1G
TITLE							DWG NO.		
OUTLINE/INSTALLATION DRAWING MODELS 3145A1 & 3145A1G							127-3145A1		
							SHEET 1 OF 1		



Dynamic Transducers and Systems

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SPECIFICATIONS MODELS 3145A1 & 3145A1G ACCELEROMETERS

SPECIFICATION	VALUE	UNITS
PHYSICAL		
WEIGHT (Model 3145A1/3145A1G)	2.3/2.1	Grams
SIZE, HEX x HEIGHT (Height does not include mtg. stud)	.281 (9/32) x .49	Inches
MOUNTING PROVISION (Model 3145A1/3145A1G)	5-40 integral stud/adhesive mount	
CONNECTOR, TOP MOUNTED	5-44	Coaxial
MATERIAL, HOUSING AND CONNECTOR	300 Series	Stainless Steel
ELEMENT STYLE	Quartz planar shear	
PERFORMANCE		
SENSITIVITY, $\pm 10\%$ [1]	10.0	mV/G
RANGE F.S. FOR ± 5 VOLTS OUTPUT	± 500	G's
FREQUENCY RANGE, $\pm 5\%$	0.5 to 10k	Hz
RESONANT FREQUENCY, NOM.	45	kHz
EQUIVALENT ELECTRICAL NOISE FLOOR	.035	G's RMS
LINEARITY [2]	$\pm 1\%$	% F.S.
TRANSVERSE SENSITIVITY, MAX.	5	%
STRAIN SENSITIVITY	.002	G's/ $\mu\sigma$ @ 250 $\mu\sigma$
ENVIRONMENTAL		
MAXIMUM VIBRATION/SHOCK	600/3000	\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	.04	%/ $^{\circ}$ F
ELECTRICAL		
SUPPLY CURRENT/COMPLIANCE VOLTAGE RANGE [3]	2 to 20/+18 to +30	mA/Volts
OUTPUT IMPEDANCE, TYP.	100	Ohms
BIAS VOLTAGE, +9 VOLTS NOM.	+8 to +13	VDC
DISCHARGE TIME CONSTANT, NOM.	0.5	Sec
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP		Positive
CASE GROUNDING	Case is grounded to electrical power ground	

[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.