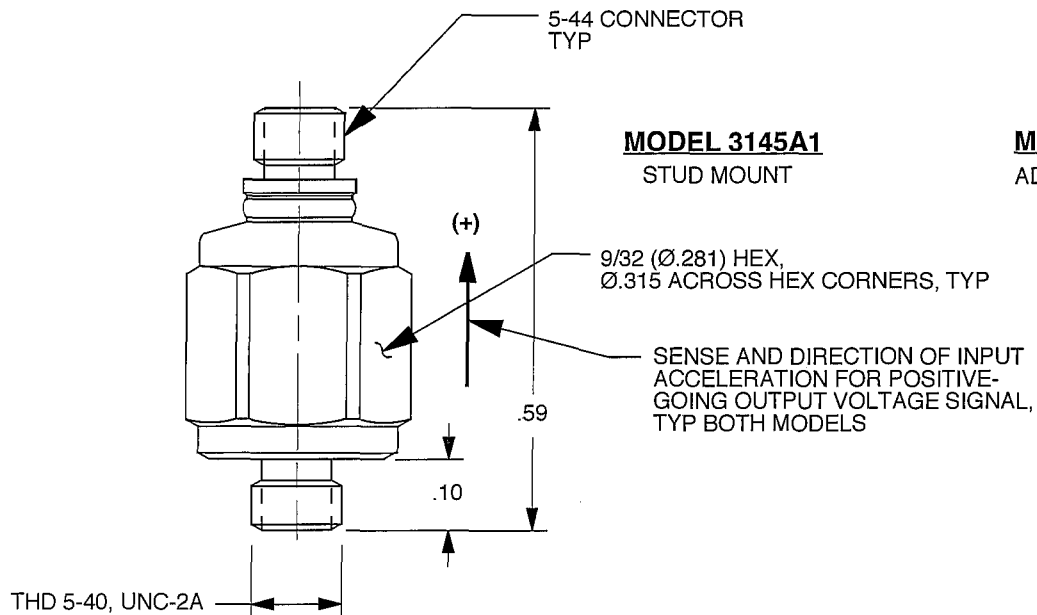
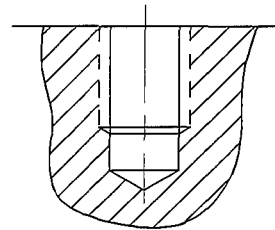
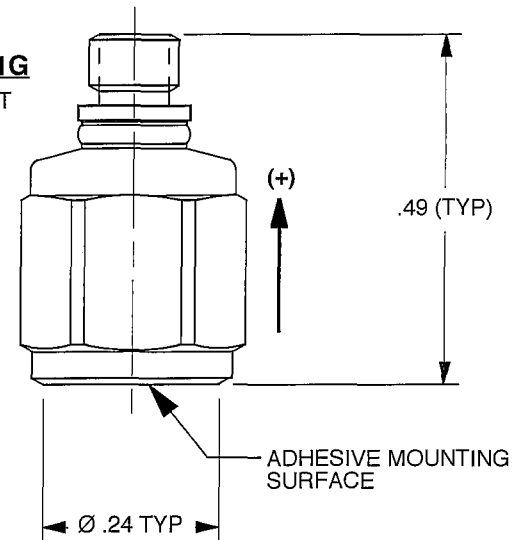


REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	10271	MATERIAL IS: 304L STAINLESS STEEL WAS: TITANIUM ALLOY	RLA 8/16/13	MH	AS



MODEL 3145A1G
ADHESIVE MOUNT


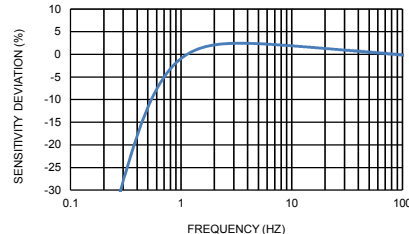
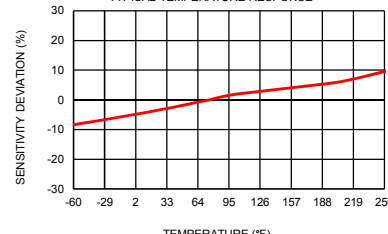
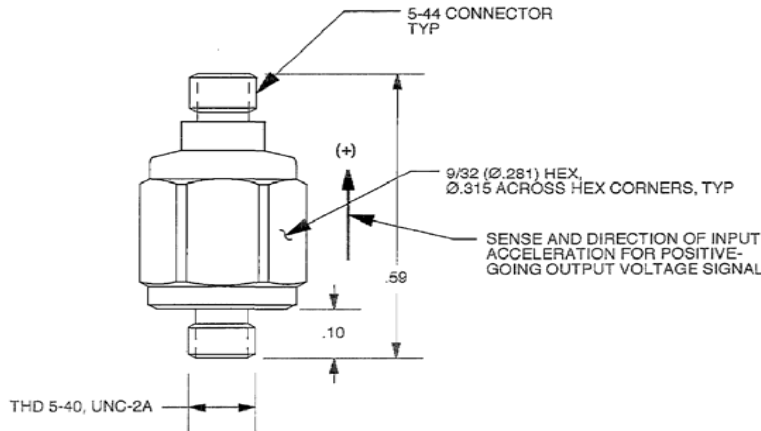



MOUNTING PORT PREPARATION:
DRILL #38 (Ø.101) X .200 MIN DEPTH
TAP 5-40 X .140 MIN DEPTH THD

1. MATERIAL: 304L STAINLESS STEEL
2. SEAL-HERMETIC, ALL WELDED.
3. WEIGHT-MOD 3145A-2.3 GRAMS.,
MOD 3145AG-2.1 GRAMS
4. TO INSTALL MOD 3145A1, TORQUE IN PLACE
WITH 10 LB.-INCHES.
5. SUGGESTED ADHESIVE TYPE FOR MODEL
3145A1G-CYANOACRYLATE "INSTANT" BOND.

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.	
FILLETS -	MAX RAD.

		MASTER ONLY IF IN RED		CHATSWORTH, CA.	
SCALE	4X	REV	-	DATE	SEE REV BLK
DATE	6/5/00	PART NO.			
DRAWN	N.C.	CHECKED	R.A.	MAT'L	
APPROVED	N.C.	4/4/05	NEXT ASSEMBLY	USED ON	3145A1 & 3145A1G
TITLE				DWG NO.	
OUTLINE/INSTALLATION DRAWING MODELS 3145A1 & 3145A1G				127-3145A1	
				SHEET 1 OF 1	

Model Number 3145A1		PERFORMANCE SPECIFICATIONS				DOC NO PS3145A1																					
		IEPE ACCELEROMETER				REV C, ECN 14478, 09/11/18																					
		<div><div>• MINIATURE DESIGN</div><div>• HERMETICALLY SEALED</div></div>																									
PHYSICAL		ENGLISH		SI																							
Weight	0.08	oz	2.3	grams																							
Connector	5-44 Coaxial		5-44 Coaxial																								
Mounting Provision	Integral Stud 5-40 UNC-2A		Integral Stud 5-40 UNC-2A																								
Material, Housing/Connector	300 Series S.S.		300 Series S.S.																								
Sensing Element	Ceramic		Ceramic																								
Element Style	Crystal Shear Mode		Crystal Shear Mode																								
PERFORMANCE																											
Sensitivity, ±10% [1]	10	mV/g	1.02	mV/m/s ²																							
Range for ± 5 Volts Output	500	g	4905	m/s ²																							
Frequency Response, ± 5%	1 to 7,000	Hz	1 to 7,000	Hz																							
Frequency Response, ± 10%	0.8 to 10,000	Hz	0.8 to 10,000	Hz																							
Resonant Frequency	> 45	kHz	> 45	kHz																							
Equivalent Electrical Noise Floor	0.004	Grms	0.04	m/s ² rms																							
Linearity, [2]	±1	% F.S.	±1	% F.S.																							
Maximum Transverse Sensitivity	5	%	5	%																							
Strain Sensitivity @ 250µε	0.002	g/µε	0.02	m/s ² /µε																							
ENVIRONMENTAL																											
Maximum Vibration	600	Gpeak	5886	m/s ² peak																							
Maximum Shock	3000	Gpeak	29430	m/s ² peak																							
Temperature Range	-60 to +250	°F	-51 to 121	°C																							
Seal	Hermetic		Hermetic																								
ELECTRICAL																											
Supply Current Range [3]	2 to 20	mA	2 to 20	mA																							
Compliance Voltage Range	+18 to +30	Volts	+18 to +30	Volts																							
Output Impedance, Typ	100	Ω	100	Ω																							
Bias Voltage	+11 to +13	VDC	+11 to +13	VDC																							
Discharge Time Constant	0.5 to 2.0	Sec	0.5 to 2.0	Sec																							
Output Signal Polarity for Acceleration Toward Top	Positive		Positive																								
Ground Isolation	Case Ground		Case Ground																								
		<div><div>This family also includes:</div><table><tr><th>Model</th><th>Sensitivity (mV/g)</th><th>Frequency Response (Hz)</th><th>Time Constant (Sec)</th><th>Operating Temp (°F)</th></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table></div>						Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)															
Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)																							
		Refer to the performance specifications of the products in this family for detailed description																									
		<div><div>Supplied Accessories:</div><div>1) Accredited calibration certificate (ISO 17025)</div></div>																									
		<div><div>Notes:</div><div>[1] Measured at 100Hz, 1 Grms per ISA RP 37.2.</div><div>[2] Measure using zero-based straight line method, % of F.S. or any lesser range.</div><div>[3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.</div></div>																									
		<div><div><div><div>TYPICAL LOW FREQUENCY RESPONSE</div></div><div><div>TYPICAL TEMPERATURE RESPONSE</div></div></div><div></div></div>																									
		Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3145A1 for more information.																									



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