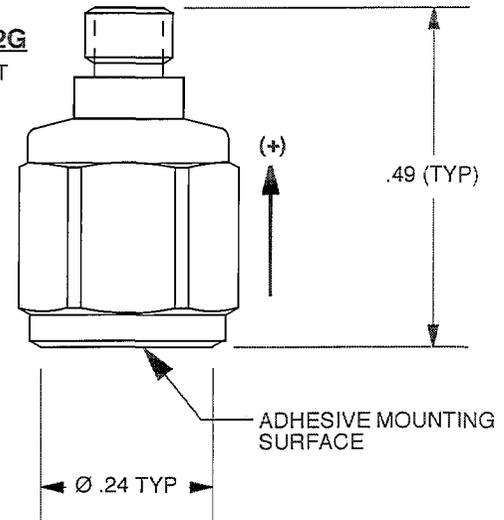
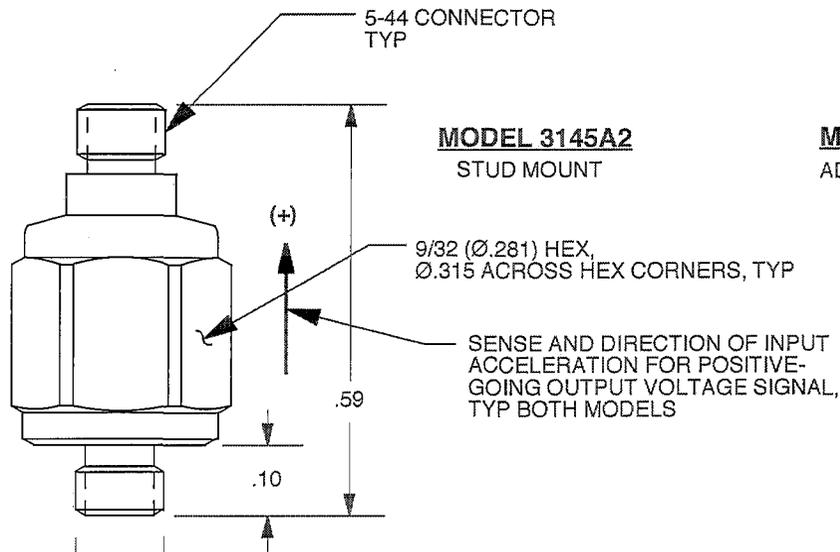
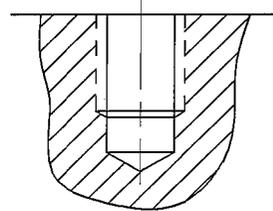


REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	10271	MATERIAL IS: 304L STAINLESS STEEL WAS: TITANIUM ALLOY	RLA 8/16/13	MH	AS



THD 5-40, UNC-2A



**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 3145A2-2.3 GRAMS.,  
MOD 3145A2G-2.1 GRAMS
4. TO INSTALL MOD 3145A2, TORQUE IN PLACE  
WITH 10 LB.-INCHES.
5. SUGGESTED ADHESIVE TYPE FOR MODEL  
3145A2G-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.

<b>DYTRAN</b> INSTRUMENTS, INC.		<b>MASTER ONLY IF IN RED</b>		CHATSWORTH, CA.	
SCALE 4X	REV -	DATE SEE REV BLK	ECN -		
DATE 3/24/03	PART NO.				
DRAWN N.C.	CHECKED R.A.	MAT'L			
APPROVED N.C.	3/24/03	NEXT ASSEMBLY	USED ON 3145A2 & 3145A2G		
TITLE <b>OUTLINE/INSTALLATION DRAWING MODELS 3145A2 &amp; 3145A2G</b>			DWG NO. <b>127-3145A2</b>		
			SHEET 1 OF 1		

Model Number 3145A2G	<b>PERFORMANCE SPECIFICATIONS</b>	DOC NO PS3145A2G
IEPE ACCELEROMETER		REV D, ECN 14478, 09/11/18



- MINIATURE DESIGN
- HERMETICALLY SEALED

**PHYSICAL**

	ENGLISH		SI	
Weight	0.07	oz	2.1	grams
Connector	5-44 Coaxial		5-44 Coaxial	
Mounting Provision	Adhesive Mount		Adhesive Mount	
Material, Housing/Connector	300 Series S.S.		300 Series S.S.	
Sensing Element	Ceramic		Ceramic	
Element Style	Planar Shear		Planar Shear	

**PERFORMANCE**

Sensitivity, ±10% [1]	5	mV/g	0.51	mV/m/s <sup>2</sup>
Range for ± 5 Volts Output	1,000	g	9810	m/s <sup>2</sup>
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	0.01	Grms	0.10	m/s <sup>2</sup> rms
Linearity, [2]	±1	% F.S.	±1	% F.S.
Maximum Transverse Sensitivity	5	%	5	%
Strain Sensitivity @ 250µε	0.001	g/µε	0.01	m/s <sup>2</sup> /µε

**ENVIRONMENTAL**

Maximum Vibration	1000	Gpeak	9810	m/s <sup>2</sup> peak
Maximum Shock	3000	Gpeak	29430	m/s <sup>2</sup> 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	150	Ω	150	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
Ground Isolation	Case Ground		Case Ground	

**This family also includes:**

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)

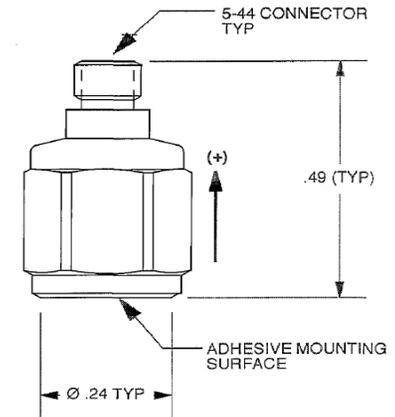
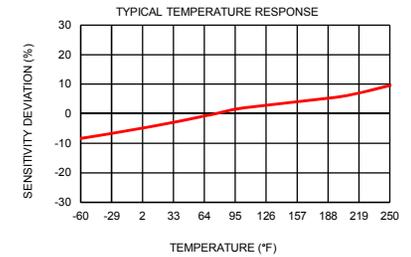
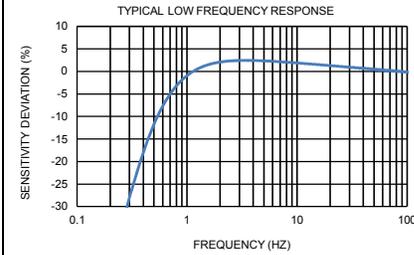
Refer to the performance specifications of the products in this family for detailed description

**Supplied Accessories:**

- 1) Accredited calibration certificate (ISO 17025)

**Notes:**

- [1] Measured at 100Hz, 1 Grms per ISA RP 37.2.
- [2] Measure using zero-based straight line method, % of F.S. or any lesser range.
- [3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3145A2 for more information.



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax: 818.700.7880 www.dytran.com  
For permission to reprint this content, please contact info@dytran.com