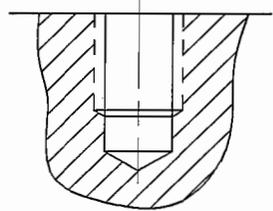
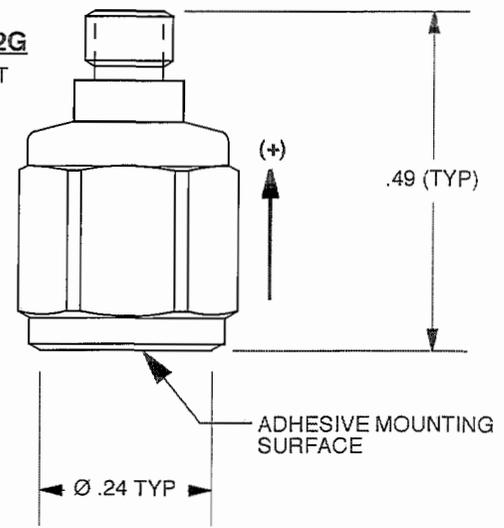
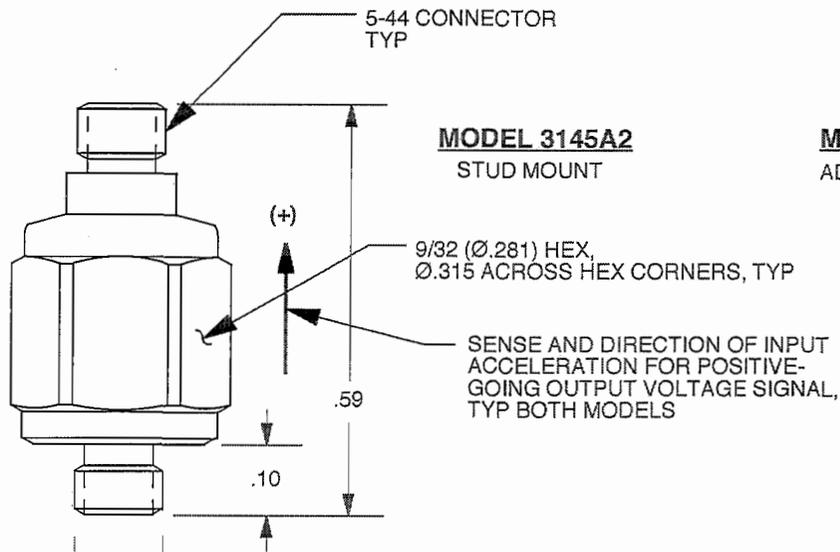


REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	10271	MATERIAL IS: 304L STAINLESS STEEL WAS: TITANIUM ALLOY	RLA 8/16/13	MH	AS



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

5. SUGGESTED ADHESIVE TYPE FOR MODEL 3145A2G-CYANOACRYLATE "INSTANT" BOND.
4. TO INSTALL MOD 3145A2, TORQUE IN PLACE WITH 10 LB.-INCHES.
3. WEIGHT-MOD 3145A2-2.3 GRAMS., MOD 3145A2G-2.1 GRAMS
2. SEAL-HERMETIC, ALL WELDED.
1. MATERIAL: 304L STAINLESS STEEL

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.

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

Model Number 3145A2	PERFORMANCE SPECIFICATIONS	DOC NO PS3145A2
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	IEPE ACCELEROMETER	REV A, ECN 11551, 11/26/14
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- MINIATURE DESIGN
- HERMETICALLY SEALED

PHYSICAL

Weight
Connector
Mounting Provision
Material, Housing/Connector
Sensing Element
Element Style

ENGLISH		SI	
0.08	oz	2.30	grams
5-44 Coaxial		5-44 Coaxial	
Integral Stud 5-40 UNC-2A		Integral Stud 5-40 UNC-2A	
300 Series S.S.		300 Series S.S.	
Ceramic		Ceramic	
Planar Shear		Planar Shear	

PERFORMANCE

Sensitivity, ±10% [1]
Range for ± 5 Volts Output
Frequency Response, ± 5%
Resonant Frequency
Equivalent Electrical Noise Floor
Linearity, [2]
Maximum Transverse Sensitivity
Strain Sensitivity @ 250µε

5	mV/g	0.51	mV/m/s ²
1,000	g	9810	m/s ²
0.8 to 10,000	Hz	0.8 to 10,000	Hz
> 45	kHz	> 45	kHz
0.07	Grms	0.69	m/s ² rms
±1	% F.S.	±1	% F.S.
5	%	5	%
0.001	g/µε	0.01	m/s ² /µε

ENVIRONMENTAL

Maximum Vibration
Maximum Shock
Temperature Range
Seal

1000	Gpeak	9810	m/s ² peak
3000	Gpeak	29430	m/s ² peak
-60 to +250	°F	-51 to 121	°C
Hermetic		Hermetic	

ELECTRICAL

Supply Current Range [3]
Compliance Voltage Range
Output Impedance, Typ
Bias Voltage
Discharge Time Constant
Ground Isolation

2 to 20	mA	2 to 20	mA
+18 to +30	Volts	+18 to +30	Volts
150	Ω	150	Ω
+11 to +13	VDC	+11 to +13	VDC
0.5 to 1.5	Sec	0.5 to 1.5	Sec
Case Ground		Case Ground	

This family also includes:

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

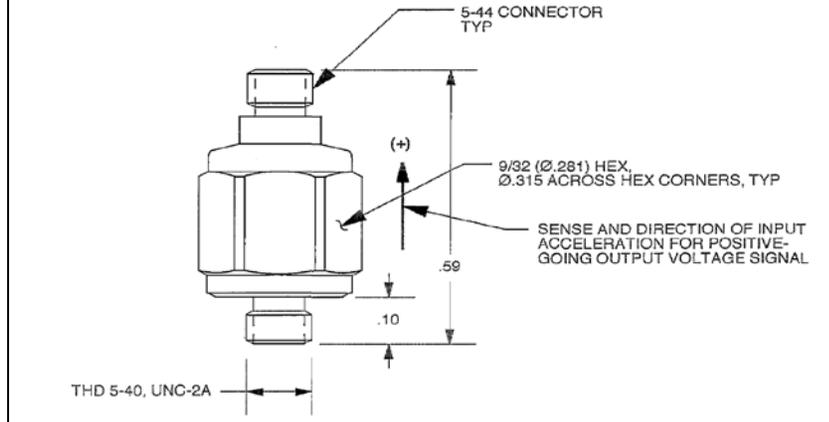
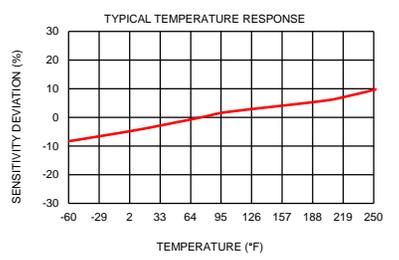
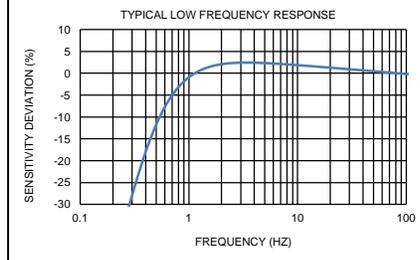
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- Accredited calibration certificate (ISO 17025)

Notes:

- Measured at 100Hz, 1 Grms per ISA RP 37.2.
- Measure using zero-based straight line method, % of F.S. or any lesser range.
- 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
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