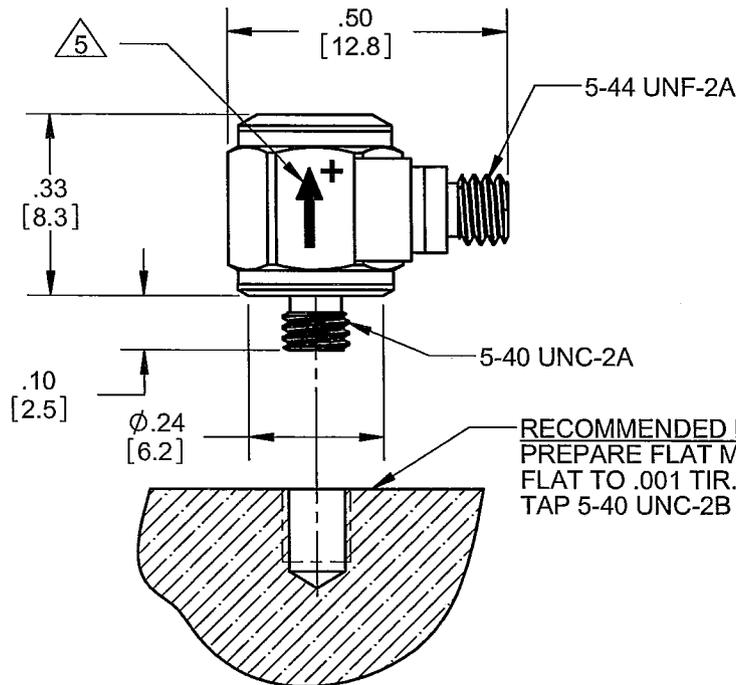
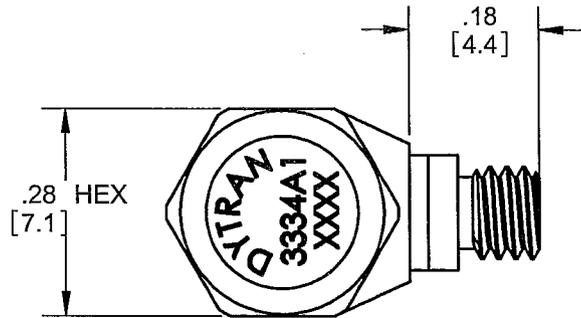


PROPRIETARY AND CONFIDENTIAL

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REVISIONS

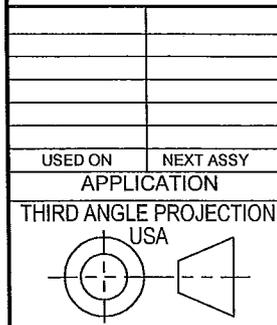
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	8134	INITIAL RELEASE	LN 12/22/11	JS	DV
B	10211	TEMPERATURE WAS: -60 °F TO +250 °F (-51 °C TO -121 °C)	AB 07/26/13	LN	AB



RECOMMENDED MOUNTING PREPARATION:
PREPARE FLAT MOUNTING SURFACE, Ø.25 [6.4] MIN.
FLAT TO .001 TIR.
TAP 5-40 UNC-2B X .125 [3.2] ∇, MIN.

5 ARROW INDICATES SENSE AND DIRECTION FOR POSITIVE OUTPUT

- 4. TEMPERATURE RANGE : -320 °F TO +250 °F (-196 °C TO 121 °C)
- 3. MOUNTING TORQUE: 3-4 Lb-in.
- 2. SENSITIVITY: 10 mV/G ± 10%.
- 1. WEIGHT: 2.0 GRAMS, MAX.



UNLESS OTHERWISE SPECIFIED:
INTERPRET DIM & TOL PER ASME Y14.5M - 1994.
REMOVE BURRS.
COUNTERSINK INTERNAL THDS 90° TO MAJOR DIA.
CHAM EXT THDS 45° TO MINOR DIA.
THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS.
THDS PER MIL-S-7742.
DIMENSIONS APPLY AFTER FINISHING.

ALL MACHINED SURFACES. ⁶³✓
TOTAL RUNOUT WITHIN .005.
BREAK SHARP EDGES .005 TO .010.
MACHINED FILLET RADII .005 TO .015.
WELDING SYMBOLS PER AWS A2.4.
ABBREVIATIONS PER MIL-STD-12.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES.
DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS
TOLERANCES ARE:
INCHES METRIC ANGLES
.XX ± .03 .X ± 0.8 ± 1°
.XXX ± .010 .XX ± 0.25

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.		
APPROVALS		DATE
ORIG	LN	12/12/11
CHK	JS	12/27/11
APP	DV	12/29/11
APP		

DYTRAN INSTRUMENTS, INC. **MASTER ONLY IF IN RED**
Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION DRAWING, MODEL 3334A1**

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3334A1	B

SCALE: NONE SOLIDWORKS SHEET 1 OF 1

Model Number
3334A1

PERFORMANCE SPECIFICATIONS

DOC NO
PS3334A1

IEPE ACCELEROMETER, SINGLE AXIS

REV G, ECN 15432, 12/04/19



- CRYOGENIC
- MINIATURE SIZE
- HERMETICALLY SEALED

	ENGLISH		SI	
PHYSICAL				
Weight	0.07	oz	2.0	grams
Connector	5-44 UNF-2A		5-44 UNF-2A	
Mounting Provision	5-40 UNC-2A		5-40 UNC-2A	
Material, Housing/Connector	Titanium		Titanium	
Sensing Element	Quartz		Quartz	
PERFORMANCE				
Sensitivity, ±10% [1]	10	mV/g	1	mV/m/s ²
Range F.S for ±5V Output	500	Gpeak	4905	m/s ² peak
Frequency Range, ± 5%	1 to 10000	Hz	1 to 10000	Hz
Resonant Frequency	> 45	kHz	> 45	kHz
Equivalent Electrical Noise Floor [4]	0.007	Grms	0.07	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	-320 to +250	°F	-196 to 121	°C
Coefficient of Thermal Sensitivity	0.04	%/°F	0.07	%/°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	+7.0 to +9.0	VDC	+7.0 to +9.0	VDC
Discharge Time Constant	0.3 to 1.5	Sec	0.3 to 1.5	Sec
Electrical Isolation	Case Grounded		Case Grounded	

This family also includes:

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

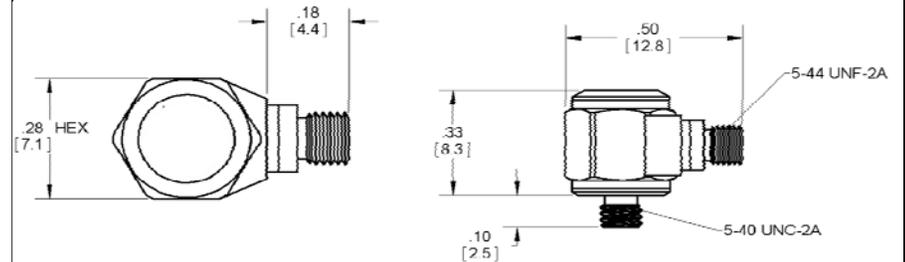
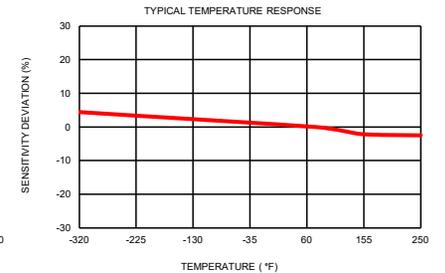
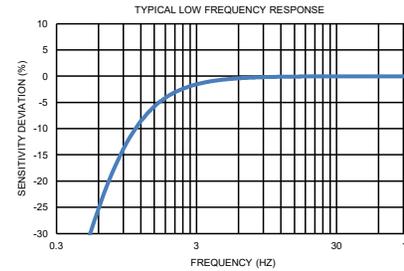
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)

Notes:

- [1] Measured at 100Hz, 1 Grms per ISA RP 37.2.
- [2] Measured 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 amplifier.
- [4] Typical. Not to exceed 0.010 Grms [0.10 m/s²]
- [5] In the interest of constant product improvement, we reserve the right to change specifications without notice. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3334A1 for more information.



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