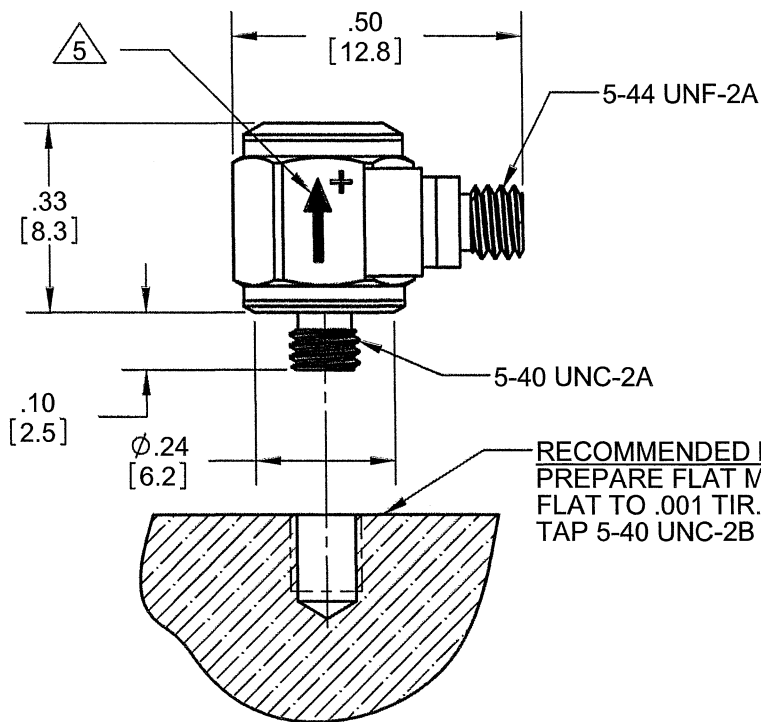
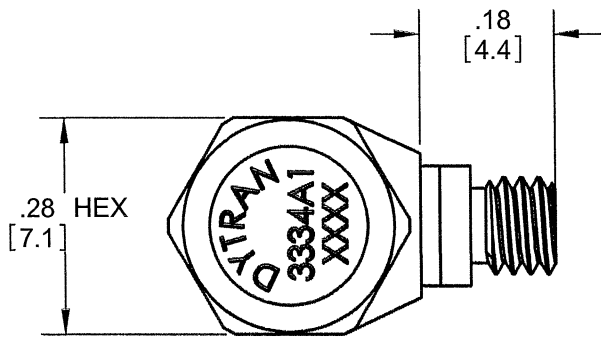


PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	8134	INITIAL RELEASE	LN 12/22/11	<i>LN</i>	<i>LN</i>



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.

$\triangle 5$ ARROW INDICATES SENSE AND DIRECTION FOR POSITIVE OUTPUT

4. TEMPERATURE RANGE : -60°F TO +250°F (-51°C TO 121°C)
3. MOUNTING TORQUE: 3-4 Lb-in.
2. SENSITIVITY: 10 mV/G \pm 10%.
1. WEIGHT: 2.0 GRAMS, MAX.

USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	

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. \checkmark
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 \pm .03 .X \pm 0.8 \pm 1°
.XXX \pm 0.10 .XX \pm 0.25

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.		
APPROVALS		DATE
ORIG	LN	12/12/11
CHK	<i>LN</i>	12/21/11
APP	<i>LN</i>	12/29/11
APP		

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

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

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3334A1	A
SCALE: NONE	SOLIDWORKS	SHEET 1 OF 1	

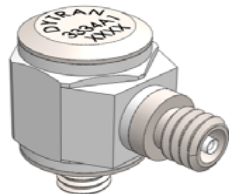
Model Number
3334A1

PERFORMANCE SPECIFICATIONS

DOC NO
PS3334A1

IEPE ACCELEROMETER, SINGLE AXIS

REV B, ECN 8348, 02/20/12



- MINIATURE SIZE
- HERMETICALLY SEALED

PHYSICAL

Weight
Connector
Mounting Provision
Material, Housing/Connector
Sensing Element

ENGLISH		SI	
0.07	oz	2.0	grams
5-44 UNF-2A		5-44 UNF-2A	
5-40 UNC-2A		5-40 UNC-2A	
Titanium		Titanium	
Quartz		Quartz	

PERFORMANCE

Sensitivity, $\pm 10\%$ [1]
Frequency Range, $\pm 5\%$
Resonant Frequency
Equivalent Electrical Noise Floor
Linearity [2]
Maximum Transverse sensitivity
Strain Sensitivity @ 250 $\mu\epsilon$

10	mV/g	1	mV/m/s ²
1 to 10000	Hz	1 to 10000	Hz
> 45	kHz	> 45	kHz
0.007	Grms/v/(Hz)	0.07	m/s ² rms/v/(Hz)
± 1	% F.S.	± 1	% F.S.
5	%	5	%
0.002	g/ $\mu\epsilon$	0.02	m/s ² / $\mu\epsilon$

ENVIRONMENTAL

Maximum Vibration
Maximum Shock
Temperature Range
Coefficient of Thermal Sensitivity
Seal

600	Gpeak	5886	m/s ² peak
3000	Gpeak	29430	m/s ² peak
-60 to +250	°F	-51 to 121	°C
0.04	%/°F	0.07	%/°C
Hermetic		Hermetic	

ELECTRICAL

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

2 to 20	mA	2 to 20	mA
+18 to +30	Volts	+18 to +30	Volts
100	Ω	100	Ω
+7.0 to +9.0	VDC	+7.0 to +9.0	VDC
0.3 to 0.7	Sec	0.3 to 0.7	Sec
10	G Ω ,min	10	G Ω ,min

This family also includes:

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

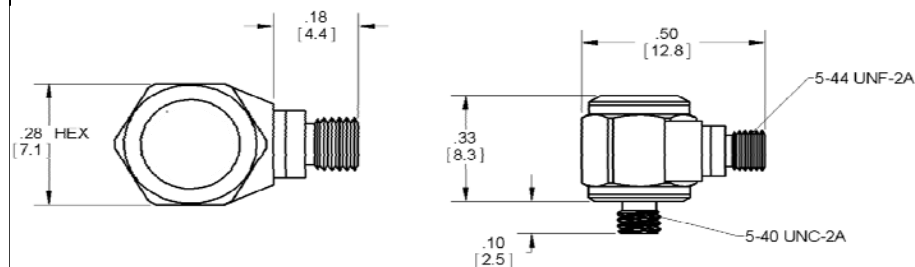
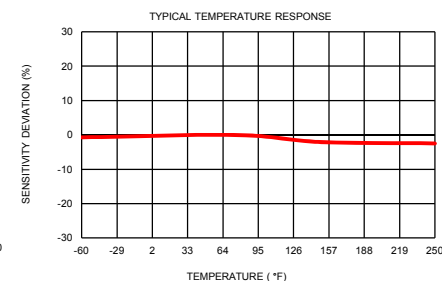
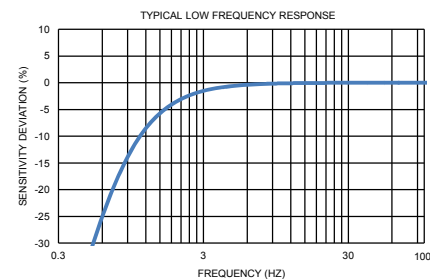
Refer to the performance specifications of the products in this family for detailed description

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] In the interest of constant product improvement, we reserve the right to change specifications without notice.



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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