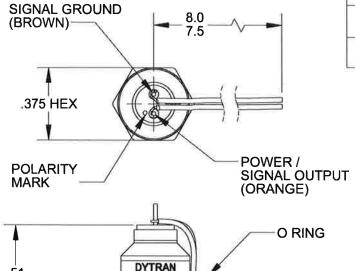
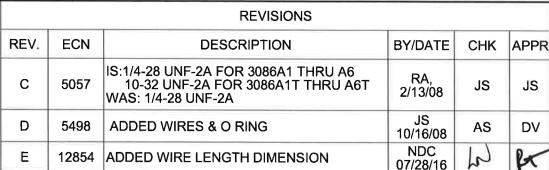
PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DYTRAN INSTRUMENTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DYTRAN INSTRUMENTS, INC. IS PROHIBITED







2. HOUSING MATERIAL: TITANIUM ALLOY

.06

.51

.20

1. RECOMMENDED MOUNTING TORQUE: **30 LB-IN**

TOLERENCE
+.004 /001
+.005 /001
+.006 /001
+.008 /001
+.010 /001
+.012 /001
PROJECTION

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. 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. TOLERANCES ARE: **DECIMALS ANGLES** .XX ± .010 ± 1° .XXX±.005

APPROVALS MATERIAL ORIG PML FINISH CHK JS APP DV DO NOT SCALE DRAWING APP

1/4-28 UNF-2A FOR 3086A1 THRU A6 10-32 UNF-2A FOR 3086A1T THRU A6T

CONTRACT NO.

TITLE: DATE

3/28/07

2/15/08

10/17/08

SCALE:

SIZE CAGE CODE 2W033

4:1

LINE DRAWING, 3086A

SOLIDWORKS

DWG. NO. 127-3086A

REV

SHEET 1 OF 1

Model Number 3086A4

PERFORMANCE SPECIFICATION

MINIATURE IEPE ACCELEROMETER

DOC NO PS3086A4

REV A, ECN 12943, 09/06/16



- MINIATURE SIZE
- EXCELLENT LINEARITY
- HERMETICALLY SEALED

		ENGLISH		SI	
PHYSICAL			•	,	
Weight		0.12	oz	3.5	grams
Connector	Top Mounted	Solder Pins		Solder Pins	
Mounting Provision	Integral Stud	1/4-28 UNF-2A		1/4-28 UNF-2A	
Material	Accelerometer and Connector	Titanium Alloy		Titanium Alloy	
Element Style		Quartz Compression		Quartz Compression]
PERFORMANCE					
Sensitivity, Nom. [1]		0.50	mV/g	0.05	mV/m/s ²
Range Full Scale		±10000	g	±98000	m/s ²
Low Frequency -3dB Point, Nom		0.16	Hz	0.16	Hz
Low Frequency -5% Point		0.5	Hz	0.5	Hz
Frequency Response, ±10%		0.35 to 10000	Hz	0.35 to 10000	Hz
Resonant Frequency		>100	kHz	>100	kHz
Isolation Cup Resonance		>45	kHz	>45	kHz
Electrical Noise		0.14	Grms	1.37	m/s ² rms
Linearity [2]		±1	% F.S.	±1	% F.S.
Maximum Transverse Sensitivity		3	%	3	%
ENVIRONMENTAL					
Maximum Shock		±50000	Gpeak	±490000	m/s² peak
Temperature Range		-60 to+250	°F	-51 to 121	°C
Environmental Seal		Hermetic		Hermetic]
ELECTRICAL			1		1
Supply Current Range [3]		2 to 20	mA	2 to 20	mA
Compliance Voltage Range [3] Output Impedance. Nom		+18 to +20 100	Volts O	+18 to +20	Volts O
Bias Voltage		+7.5 to +9.5	VDC	+7.5 to +9.5	VDC
Discharge Time Constant		0.8 to 2.0	Sec	0.8 to 2.0	Sec
Ground Isolation, Case to Mounting Surface, Min		10	ΜΩ	10	ΜΩ

This family also includes:								
Model	Sensitivity (mV/g)	Range F.S. (g)	Maximum Shock (g)	Operating Temp (°F)				
3086A1	0.05	70,000	100,000	-60 to +250				
3086A2	0.1	50,000	100,000	-60 to +250				
3086A3	0.25	20,000	100,000	-60 to +250				
3086A5	1.0	5,000	50,000	-60 to +250				
3086A6	2.0	2,500	50,000	-60 to +250				

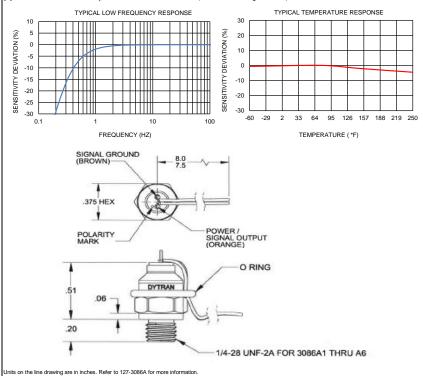
Please refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)

Notes:

- [1] Measured by impacting against calibrated force sensor. NIST traceable.
- [2] Percent of full scale or any lessor full scale range, zero-based best fit straight line method.
- [3] Power only with Dytran or Dytran approved current source type power unit. Do not supply power without current limiting. You will destroy the integral electronics. This will void the warranty.
- [4] Recommended Cable: Dytran Part No. 128-6869AXX (XX denotes length in feet)





For permission to reprint this content, please contact info@dytran.com

