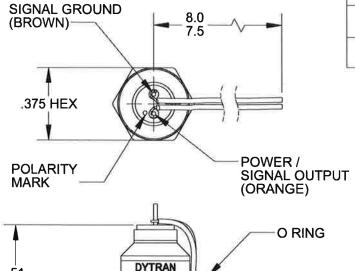
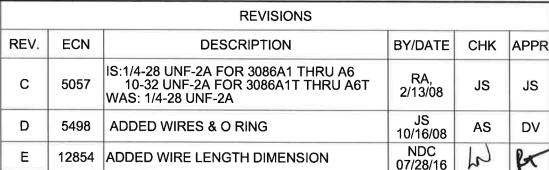
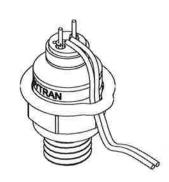
## PROPRIETARY AND CONFIDENTIAL

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# 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
3086A5T

PERFORMANCE SPECIFICATION

MINIATURE IEPE ACCELEROMETER

DOC NO
PS3086A5T

REV B, ECN 14205, 05/16/18



- MINIATURE SIZE
- EXCELLENT LINEARITY
- HERMETICALLY SEALED

		ENGLISH		SI	SI	
PHYSICAL						
Weight		0.12	OZ	3.5	grams	
Connector	Top Mounted	Solder Pins		Solder Pins		
Mounting Provision	Integral Stud	10-32 UNF-2A		10-32 UNF-2A		
Material	Accelerometer and Connector	Titanium Alloy		Titanium Alloy		
Element Style		Quartz Compression	]	Quartz Compression	]	
PERFORMANCE						
Sensitivity, Nom. [1]		1.00	mV/g	0.10	mV/m/s <sup>2</sup>	
Range Full Scale		±5000	g	±49000	m/s <sup>2</sup>	
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		0.07	Grms	0.69	m/s <sup>2</sup> 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	Volts O	+18 to +20	Volts O	
Bias Voltage	OIII	+7.5 to +9.5	VDC	+7.5 to +9.5	VDC	
Discharge Time Cons	tant	0.8 to 2.0	Sec	0.8 to 2.0	Sec	
Ground Isolation, Cas	e to Mounting Surface, Min	10	МΩ	10	ΜΩ	

This family also includes:								
Model	Sensitivity (mV/g)	Range F.S. (g)	Maximum Shock (g)	Operating Temp (°F)				
3086A1T	0.05	70,000	100,000	-60 to +250				
-3086A2T	0.1	50,000	100,000	-60 to +250				
3086A3T	0.25	20,000	100,000	-60 to +250				
3086A4T	0.5	10,000	50,000	-60 to +250				
3086A6T	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)

