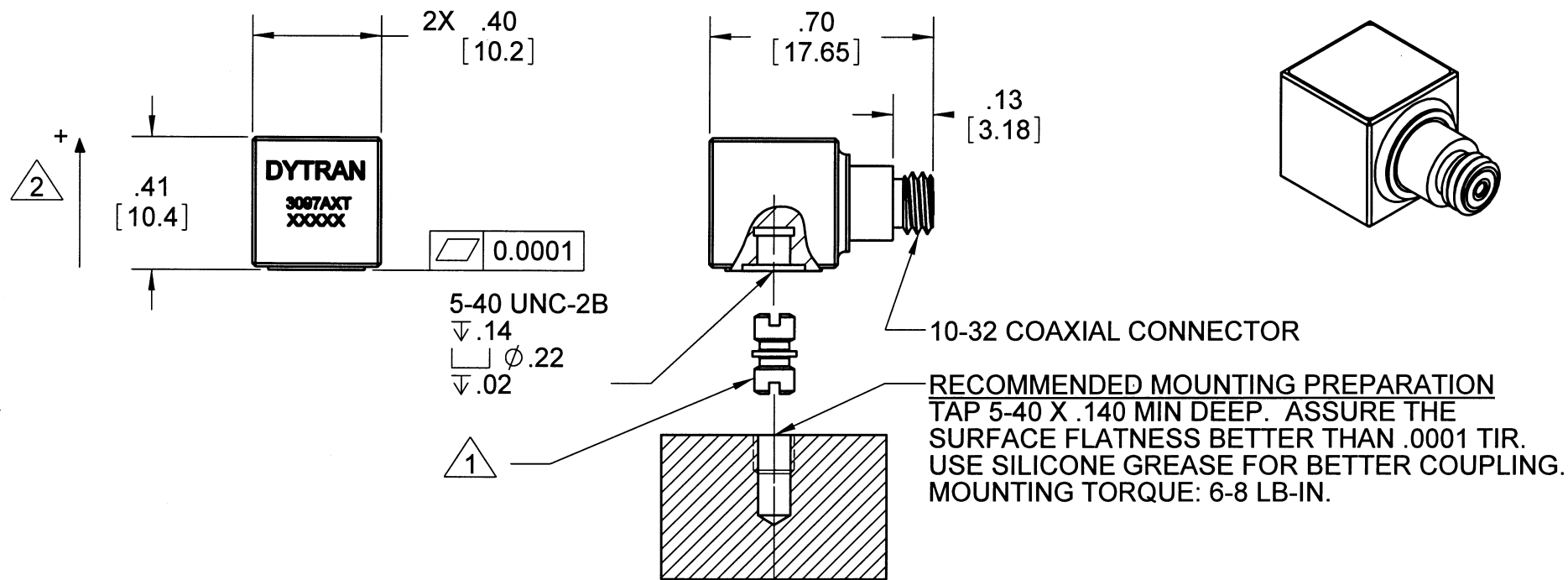


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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	6192	INITIAL RELEASE	RA, 08/20/09	ep	SA



4. HOUSING/CONNECTOR MATERIAL: TITANIUM

3. WEIGHT: 4.3 GRAMS

2. ARROW DESIGNATES UNIT'S POLARITY

1. MOUNTING STUD 6580 (5-40 TO 5-40) SUPPLIED

NOTES: UNLESS OTHERWISE SPECIFIED

MODEL	SENSITIVITY
3097A3T	500mV/g
3097A2T	100mV/g
3097A1T	10mV/g

3097AT SERIES	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.	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
.XX ± .03	.X ± 0.8	± 1°
.XXX ± .010	.XX ± 0.25	
MATERIAL		
FINISH		
DO NOT SCALE DRAWING		

CONTRACT NO.

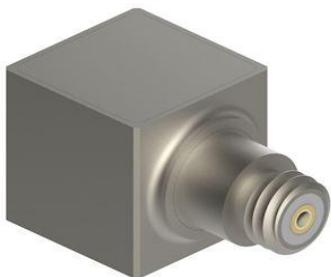


TITLE:

OUTLINE/INSTALLATION DRAWING,
3097AT TEDS SERIES

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3097AT	A
SCALE: 2:1	SOLIDWORKS	SHEET 1 OF 1	

Model Number 3097A1T	PERFORMANCE SPECIFICATION			DOC NO PS3097A1T
		SINGLE AXIS IEPE PLANAR SHEAR ACCELEROMETERS		REV D, ECN 13572, 07/21/17



- MINIATURE SIZE
- HERMETICALLY SEALED
- EXCELLENT LINEARITY
- TEDS FEATURE

PHYSICAL

Weight	
Size	Square x Height
Connector	Type
Mounting Provision : Tapped Hole	
Material : Base, Cap and Connector	
Element Style	Material Type

PERFORMANCE

Sensitivity, $\pm 5\%$ [1]
 Range F.S for ± 5 Volts Output
 Frequency Range, $\pm 5\%$
 $\pm 15\%$
 Resonant Frequency, Nominal
 Equivalent Electrical Noise Floor
 Linearity [2]
 Phase Response ($\pm 5^\circ$)
 Maximum Transverse sensitivity
 Strain Sensitivity

ENVIRONMENTAL

Maximum Vibration	
Maximum Shock	
Temperature Range	
TEDS Operating Temperature	
Seal, Hermetic	

ELECTRICAL

Supply Current Range [3]
Compliance Voltage Range
Output Impedance, Type
Bias Voltage
Discharge Time Constant, Nom
Output Signal Polarity for Acceleration Towards Top
Electrical Isolation
TEDS Feature

ENGLISH		SI	
0.15	oz	4.3	grams
.40 x .40 x .41	Inches	10.16 x 10.16 x 10.41	mm
10-32 Coaxial		10-32 Coaxial	
5-40 UNC-2B		5-40 UNC-2B	
Titanium		Titanium	
Ceramic		Ceramic	
Planar Shear		Planar Shear	
10	mV/g	1.02	mV/m/s ²
+500	G's	±4905	m/s ²
0.3 to 5000	Hz	0.3 to 5000	Hz
0.15 to 10,000	Hz	0.15 to 10,000	Hz
> 35	kHz	> 35	kHz
0.001	Grms	0.010	m/s ² rms
± 1%	% F.S.	± 1%	% F.S.
5 to 3000	Hz	5 to 3000	Hz
5	%	5	%
0.002	g/μo	0.02	m/s ² /μo
±600	Gpeak	±5886	m/s ² peak
±5000	Gpeak	±49050	m/s ² peak
-60 to +200	°F	-51 to +93	°C
-40 to +185	°F	-40 to +85	°C
Glass-to-metal/Welded		Glass-to-metal/Welded	
2 to 20	mA	2 to 20	mA
+ 18 to +30	Volts	+18 to +30	Volts
100	Ω	100	Ω
+11 to +13	VDC	+11 to +13	VDC
1.5 to 2.5	Sec	1.5 to 2.5	Sec
Positive		Positive	
Case Grounded		Case Grounded	
IEEE 1451.4		IEEE 1451.4	

This family also includes:

Model	Sensitivity (mV/g)	Range F.S ± 5 Volts (G's)	Max Vibration/Shock($\pm$ Gpeak)	Resonant Frequency (kHz)
3097A2T	100	± 50	400/5000	> 35
3237A3T	500	± 10	200/5000	> 35

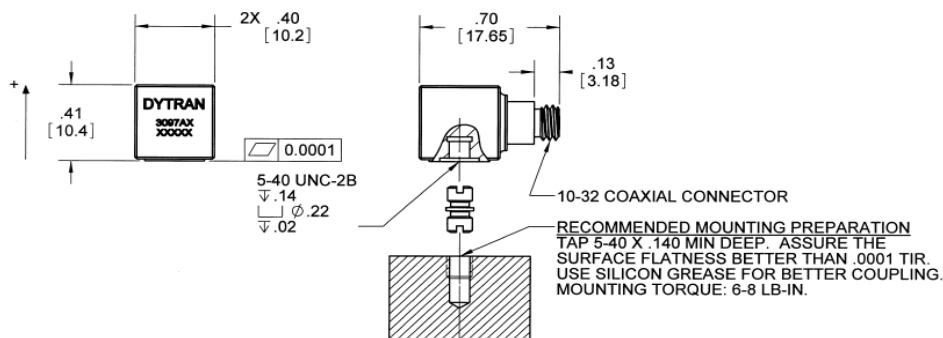
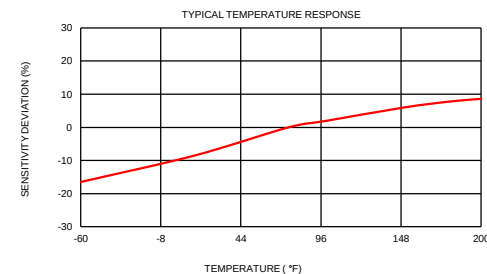
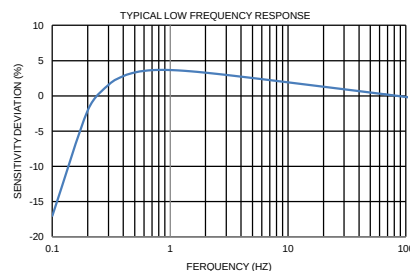
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6580 mounting stud (5-40 to 5-40), qty 1

Notes:

- [1] Measure at 100Hz, 1 Grms per ISA RP 37.2
[2] Measure 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 charge amplifier



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3097A for more information.



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