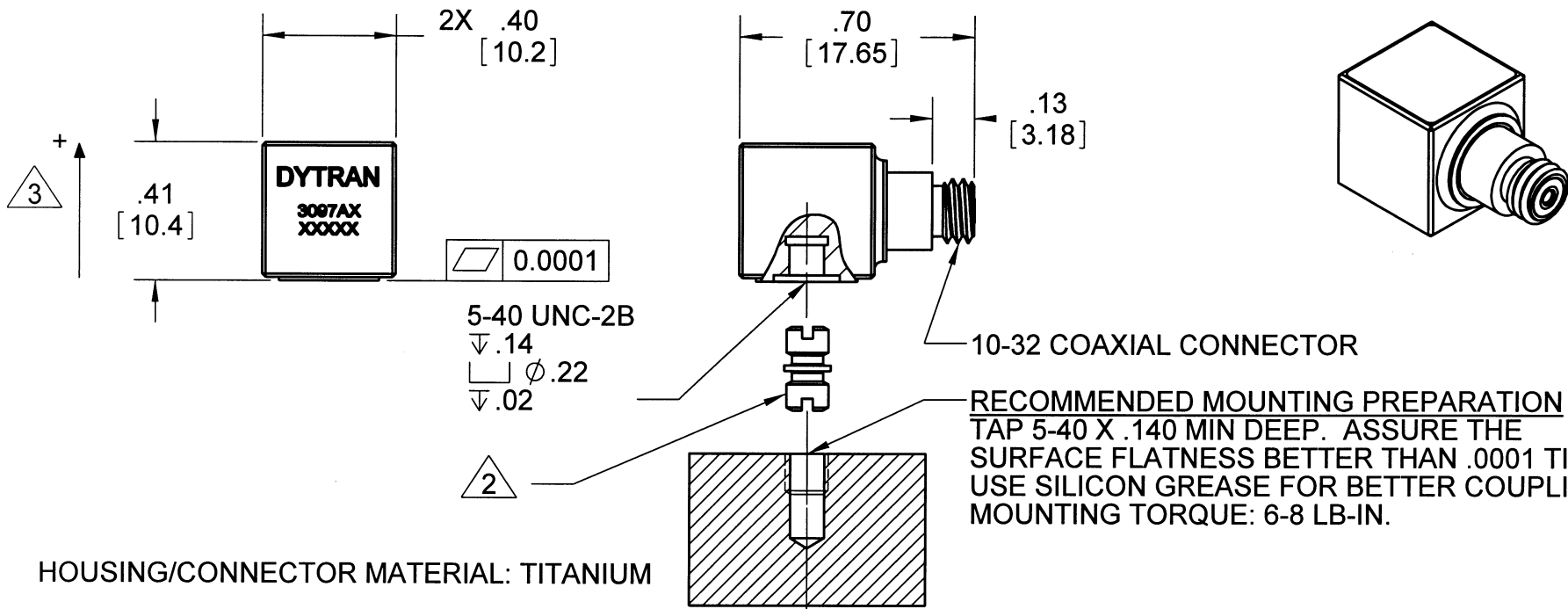


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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	5902	IS: 6580 WAS: 6728	RA, 04/03/09	De	As



RECOMMENDED MOUNTING PREPARATION
 TAP 5-40 X .140 MIN DEEP. ASSURE THE SURFACE FLATNESS BETTER THAN .0001 TIR. USE SILICON GREASE FOR BETTER COUPLING. MOUNTING TORQUE: 6-8 LB-IN.

- 5. HOUSING/CONNECTOR MATERIAL: TITANIUM
 - 4. WEIGHT: 4.3 GMS
 - 3. ARROW DESIGNATES UNIT'S POLARITY
 - 2. MOUNTING STUD 6580 (5-40 TO 5-40) SUPPLIED
 - 1. DELETED
- NOTES: UNLESS OTHERWISE SPECIFIED

MODEL	SENSITIVITY
3097A3	500mV/g
3097A2	100mV/g
3097A1	10mV/g

3097A

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.

63/

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	

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS		DATE
ORIG	DV	09/11/08
CHK	DV	09/11/08
APP	DV	09/11/08
APP		

MASTER COPY
ONLY IF IN RED

TITLE: **OUTLINE/ INSTALLATION DRAWING, 3097A SERIES**

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



**SPECIFICATIONS
MODEL SERIES 3097A IEPE ACCELEROMETERS**

SPECIFICATION	VALUE			UNITS
PHYSICAL				
WEIGHT	4.3			grams
SIZE, SQUARE x HEIGHT	.40 x .40 x 0.41			inches
MOUNTING PROVISION	5-40 UNC-2B, 0.140 DEEP TAPPED HOLE			
CONNECTOR, SIDE MOUNTED	10-32 Coaxial			
MATERIAL, BASE, CAP & CONNECTOR	TITANIUM			
SEISMIC ELEMENT TYPE	CERAMIC, PLANAR SHEAR			
		MODELS		
	3097A1	3097A2	3097A3	
PERFORMANCE				
SENSITIVITY, ± 5% [1]	10	100	500	mV/g
RANGE F.S. FOR ± 5 VOLTS OUTPUT	± 500	±50	±10	g's
FREQUENCY RANGE, ± 5% (all models)		0.3 to 10,000		Hz
RESONANT FREQUENCY, NOM. (all models)		40		kHz
EQUIVALENT ELECTRICAL NOISE	.0005	.0001	.0002	grms
PHASE RESPONSE (±5°)		1 to 3,000		Hz
LINEARITY [2] (all models)		<1		% F.S.
TRANSVERSE SENSITIVITY, MAX. (all models)		<5		%
BASE STRAIN SENSITIVITY		0.002		g's/μσ
ENVIRONMENTAL				
MAXIMUM VIBRATION/SHOCK	600/5000	400/5000	200/5000	± gpk
TEMPERATURE RANGE	-60 to +200	-60 to +180	-60 to +150	°F
SEAL, HERMETIC	Glass-to-metal/welded			
COEFFICIENT OF THERMAL SENSITIVITY		.06		%/°F
ELECTRICAL				
SUPPLY CURRENT [3]		2 to 20		mA
COMPLIANCE VOLTAGE RANGE		18 to +30		Volts
OUTPUT IMPEDANCE, TYP.		100		Ω
BIAS VOLTAGE		+11 to +13		VDC
DISCHARGE TIME CONSTANT, NOM.		2.0 – 2.2		Sec
OUTPUT SIGNAL POLARITY		Positive		
FOR ACCELERATION TOWARD TOP				

Accessories supplied: (1) Model 6580 mounting stud (5-40 TO 5-40).

[1] Measured at 100 Hz, 1 grms per ISA RP 37.2.

[2] Measured using zero-based best straight line method, % of F.S. or any lesser range.

[3] Do not apply power to this device without current limiting, 20 mA MAX. To do so will destroy the integral IC amplifier.