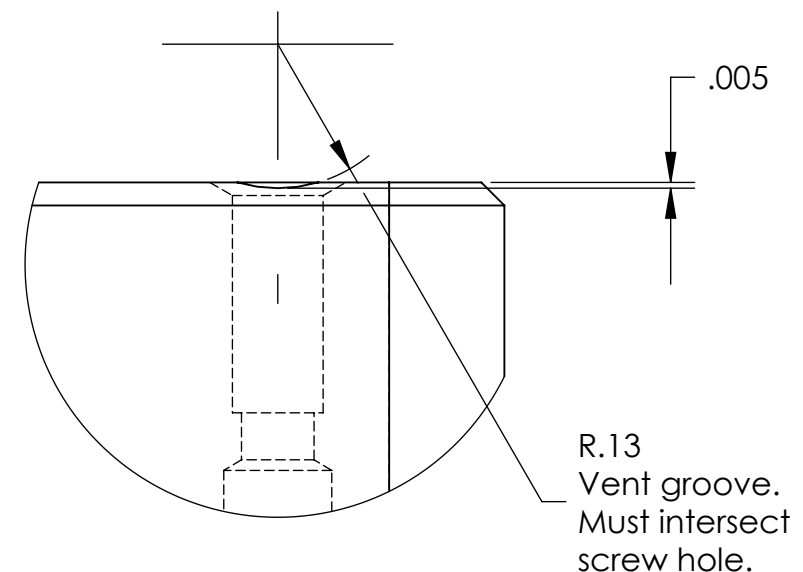
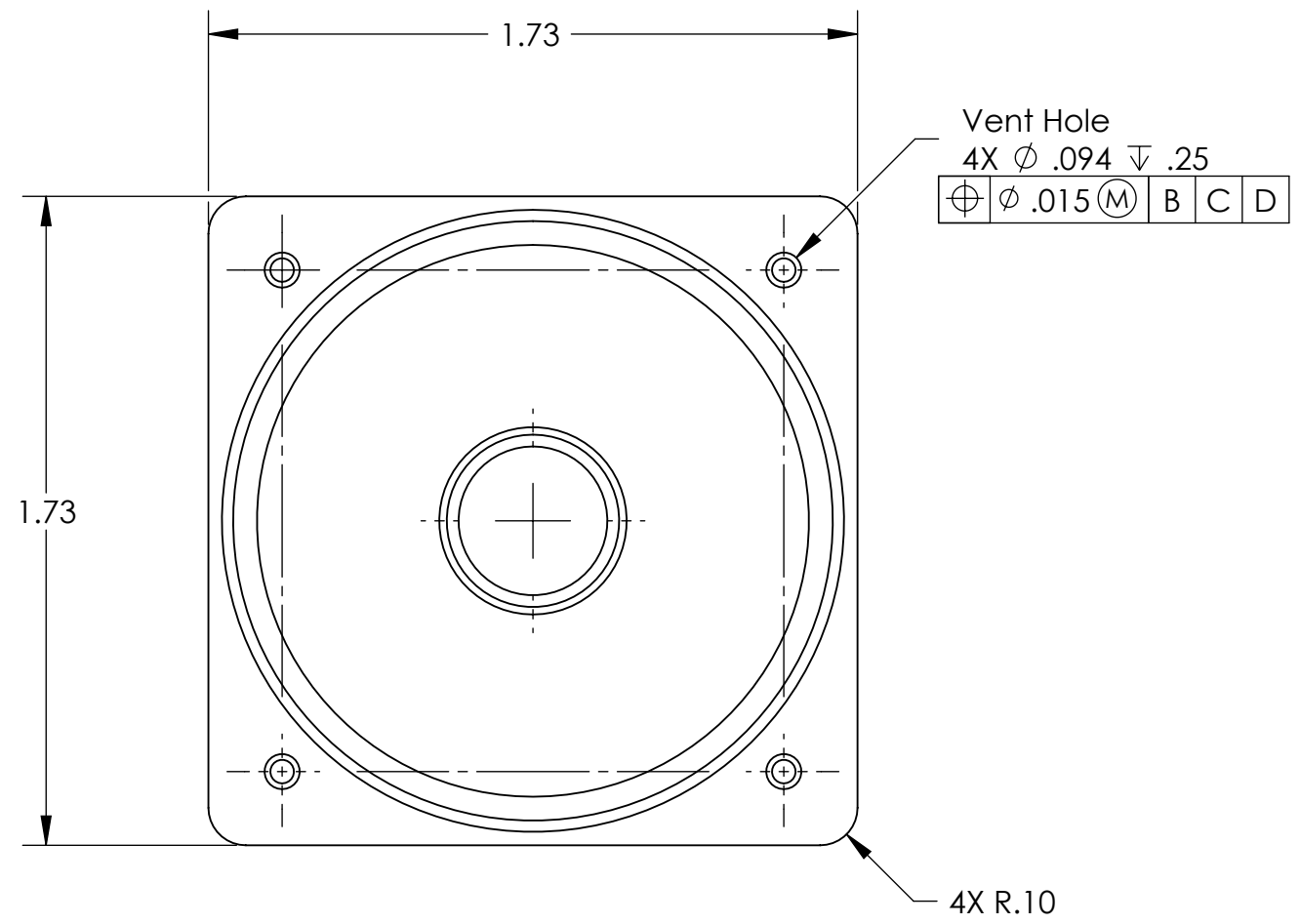
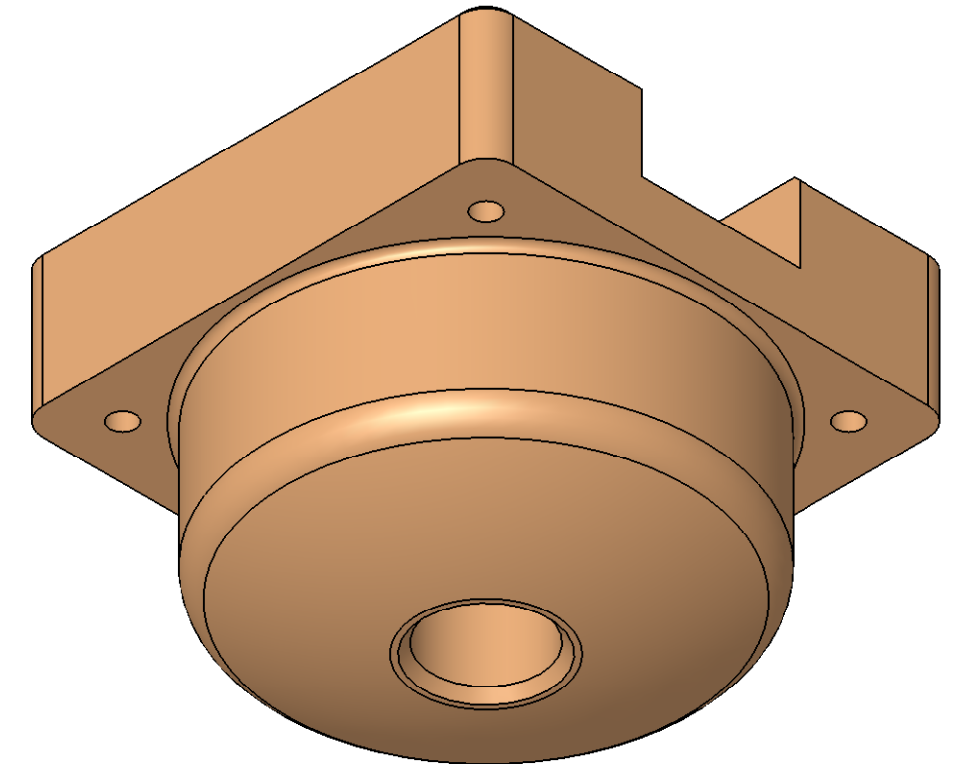
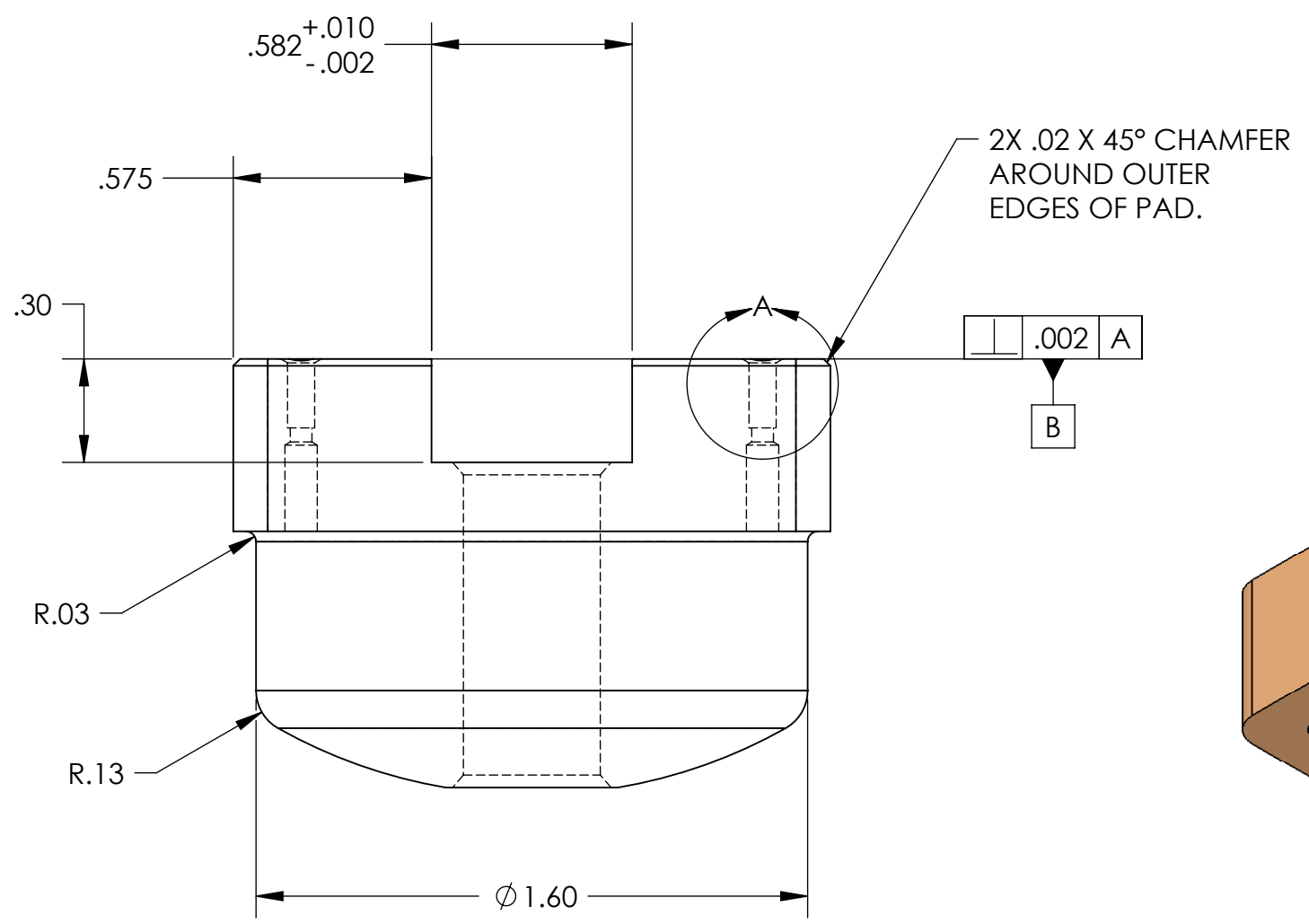
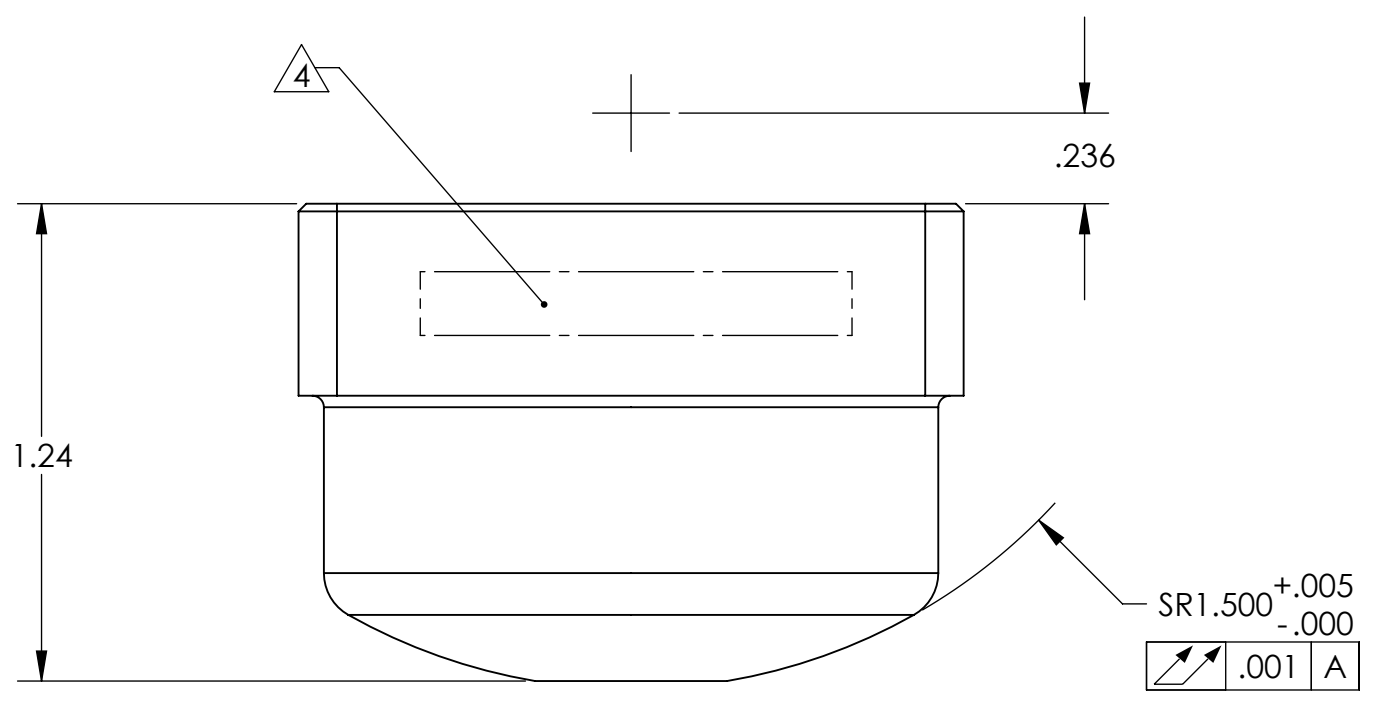
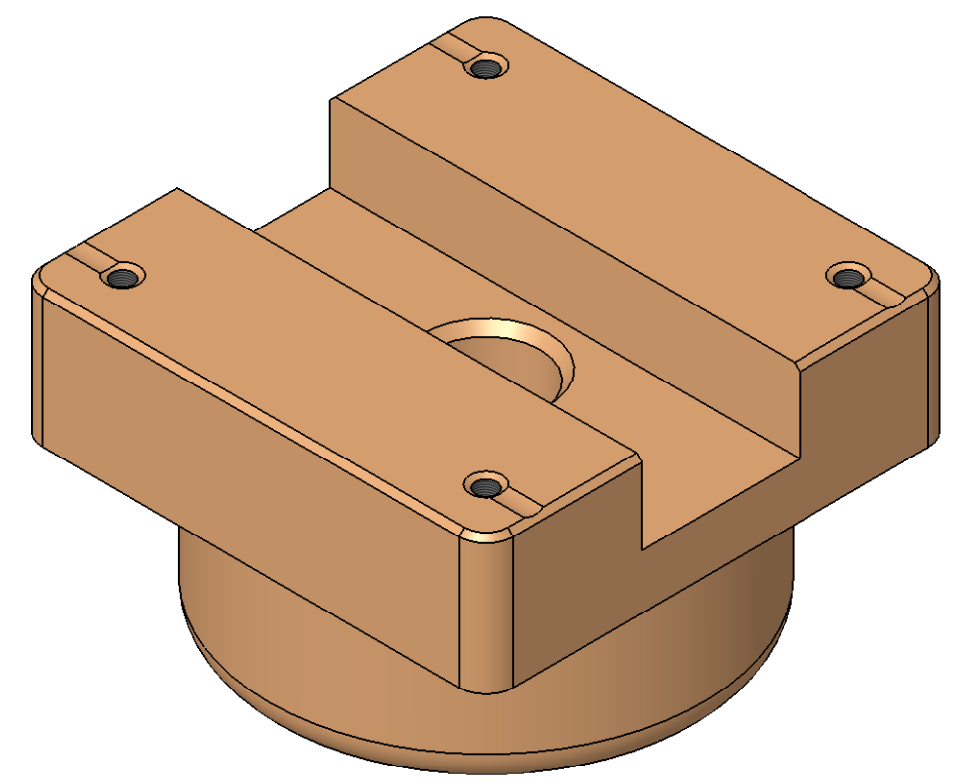
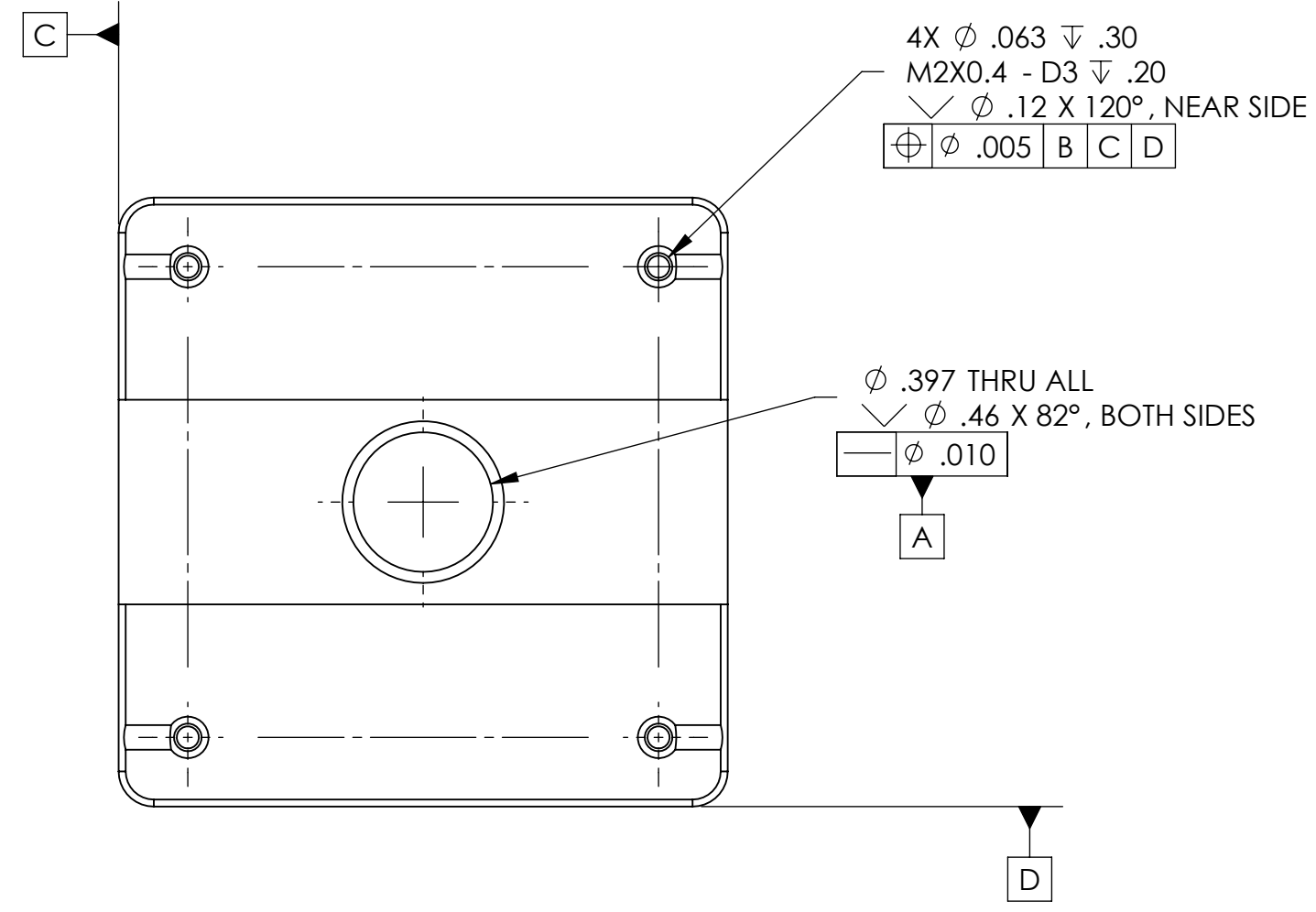


REVISION HISTORY				
REV	DATE	ECO	APPROVAL	DESCRIPTION
V1 / C	25 Jun 2007	1066	D. Senders	Release for Enhanced LIGO.
V2	3 Apr 2009		A. Stein	Release for Advanced LIGO. Minor change to SR tolerance. Changed vent groove profile. Added chamfers and c/sinks.



DETAIL A
SCALE 6 : 1
(4 PLACES)

MACHINING NOTES:

- 1) MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. ABRASIVE REMOVAL TECHNIQUES (OTHER THAN DRESSED BLANCHARD GRINDING) ARE NOT ACCEPTABLE.
- 2) ALL MACHINING FLUIDS MUST BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE, AND SILICONE, SUCH AS CINCINNATI MILACRON CIMTECH 410.
- 3) THOROUGHLY CLEAN PART TO REMOVE ALL OIL, GREASE, DIRT, AND CHIPS.
- 4) WHERE INDICATED, MECHANICALLY SCRIBE, STAMP, OR ENGRAVE THE FOLLOWING INFORMATION AS SHOWN BELOW: **PART NUMBER-REVISION** (AND **TYPE** IF INDICATED), FOLLOWED ON THE NEXT LINE WITH A UNIQUE 3-DIGIT **SERIAL NUMBER** STARTING AT 001 FOR THE FIRST PART AND INCREMENTING THEREAFTER. USE 0.38" TALL CHARACTERS UNLESS PART SIZE DICTATES SMALLER.

POST-MACHINING NOTES:

- P1) CLEAN TO LIGO STANDARDS. CLASS A.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DECIMAL TOLERANCES: XX \pm .015 XXX \pm .005 ANG TOL: \pm 1" SURFACE ROUGHNESS: $\sqrt{32}$		ORIGINAL DESIGN BY: High Precision Devices 1468 Valtrec Lane, Suite C, Boulder, Colorado 80301 Phone: (303) 447-2558 Fax: (303) 447-2548 Web Site: www.hpd-online.com	MODIFIED BY:
APPROVALS ENGINEERING (HPD): D. Senders 5/22/2007 QUALITY (HPD): C. Danaher 5/22/2007	DATE	DESCRIPTION: Sensor Head Base	
MATERIAL: 6061-T6 Al	FINISH: None	P/N: D071161	CONFIG: -
MASS: 0.2 lbs	SIZE: C	CAD FILE NAME: D071161_Sensor_Head_Base	
THIS PRINT & THE EMBEDDED CAD MODEL ARE THE DOCUMENTATION OF RECORD, UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS IN THE MODEL ARE BASIC, WITH TOLERANCES GIVEN BY: 		PROJECT: HAM ISI, Advanced LIGO	
SCALE: 2:1		SIZE: 1	REV: V2
DRAWN BY: Dave Senders (HPD)		DATE PRINTED: 4/3/2009	