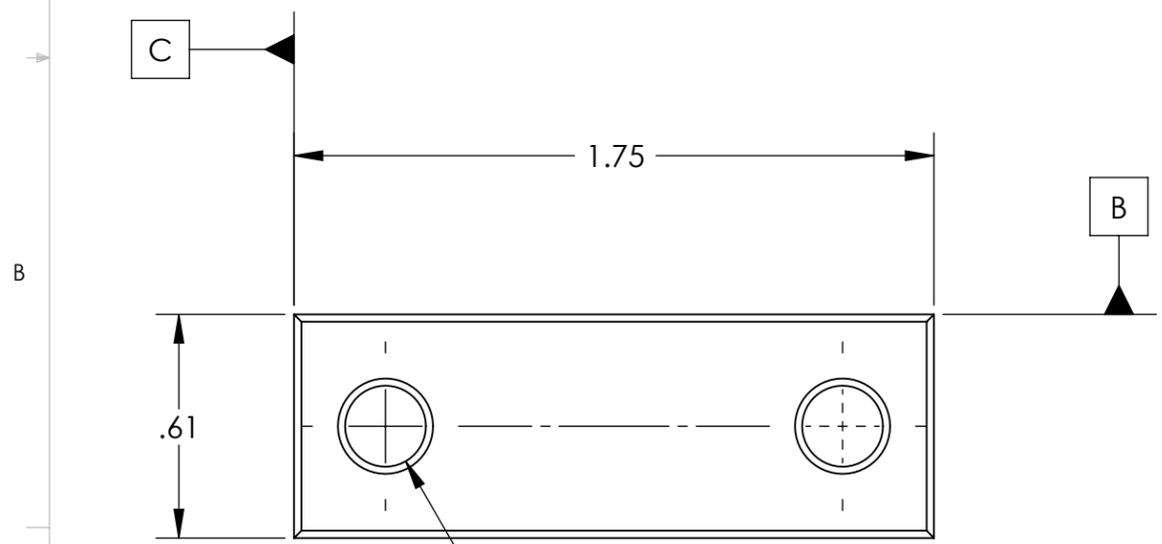
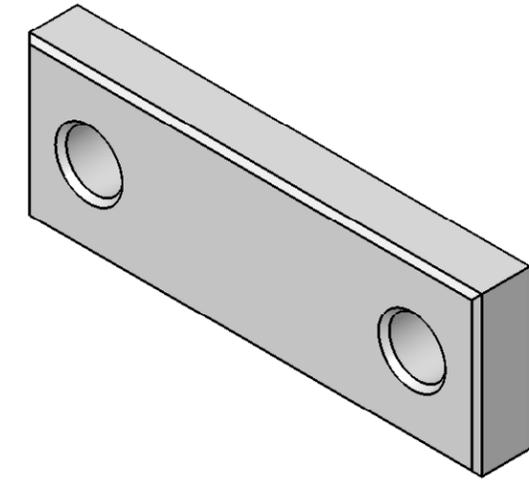
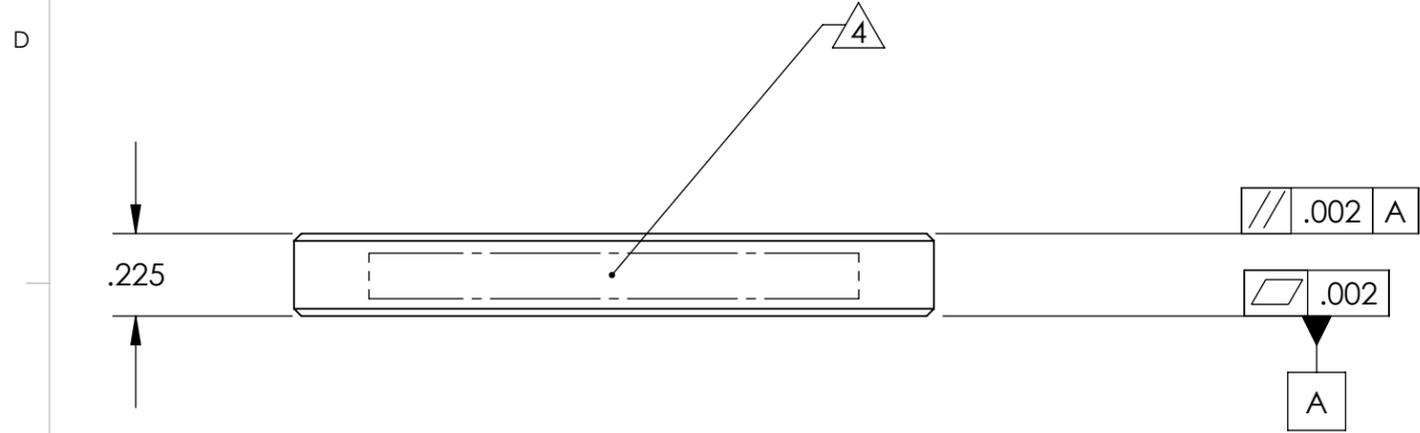
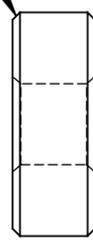


REVISION HISTORY				
REV	DATE	ECO	APPROVAL	DESCRIPTION
V1 / C	19 Jun 2007	1069	D. Senders	Release for Enhanced LIGO.
V2	3 Apr 2009		A. Stein	Release for Advanced LIGO. Added chamfers and c'sinks.



2X .02 X 45° CHAMFER  
AROUND FACE



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.

D071170-V2  
S/N - ###

POST-MACHINING NOTES:

P1) CLEAN TO LIGO STANDARDS, CLASS A.

2X  $\phi$  .221 THRU ALL  
 $\sphericalangle$   $\phi$  .26 X 82°, BOTH SIDES  
 $\oplus$   $\phi$  .010 (M) A B C

APPROVALS	DATE
ENGINEERING (HPD): D. Senders	5/22/2007
QUALITY (HPD): C. Danaher	5/22/2007
MATERIAL:	<b>6061-T6 Al</b>
FINISH:	<b>None</b>
MASS:	<b>0.02 lbs</b>

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 DECIMAL TOLERANCES:  
 .XX ±.015 .XXX ±.005  
 ANG TOL: ± 1° SURFACE ROUGHNESS: 63

REMOVE ALL SHARP EDGES.  
 LEAVE .005 X 45° MIN CHAMFER,  
 OR .005 MIN RADIUS.

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:

$\phi$  .010 A B C

ORIGINAL DESIGN BY:		<b>High Precision Devices</b>		MODIFIED BY:
		1668 Valtec Lane, Suite C, Boulder, Colorado 80301		
		Phone: (303) 447-2558 Fax: (303) 447-2548 Web Site: www.hpd-online.com		
DESCRIPTION: <b>Sensor Head Standoff, Horiz</b>				
P/N: <b>D071170</b>		CONFIG: -		
CAD FILE NAME: D071170_Sensor_Head_Standoff-Horiz				
PROJECT: HAM ISI, Advanced LIGO				
SIZE	SCALE: <b>2:1</b>	DRAWN BY: <b>Dave Senders (HPD)</b>		REV
<b>B</b>	SHEET <b>1</b> OF <b>1</b>	DATE PRINTED: <b>4/3/2009</b>		<b>V2</b>