

NOTES CONTINUED:

5. SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. A VIBRATORY TOOL MAY BE USED.  
EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

6. APPROXIMATE WEIGHT = 2gram.

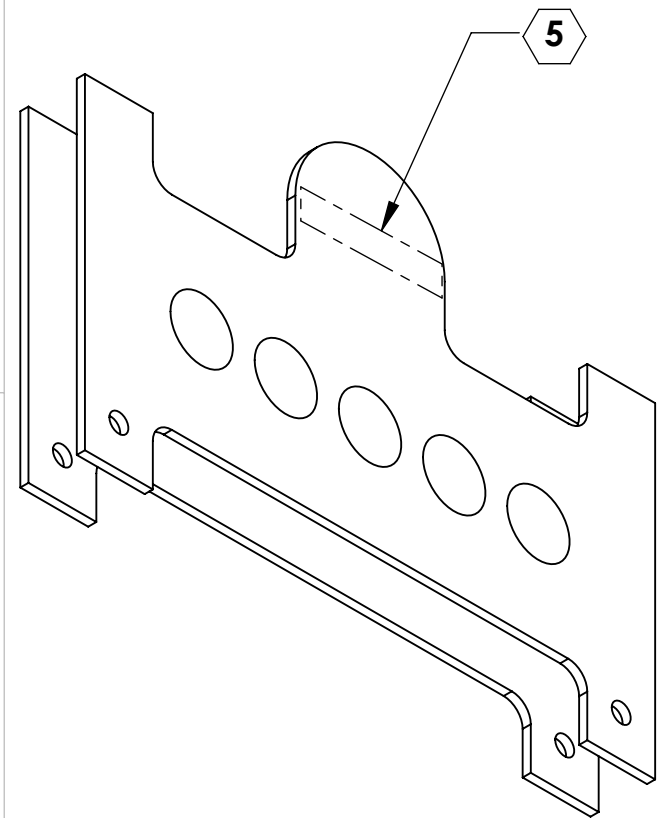
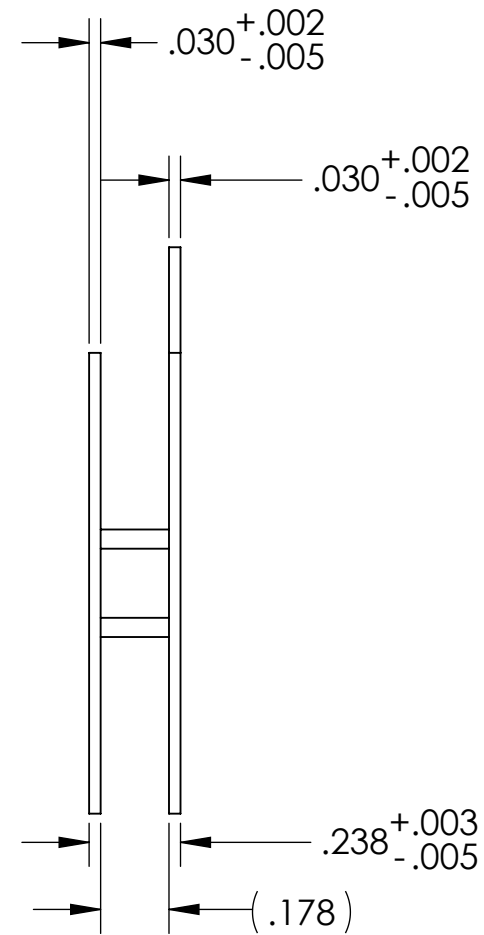
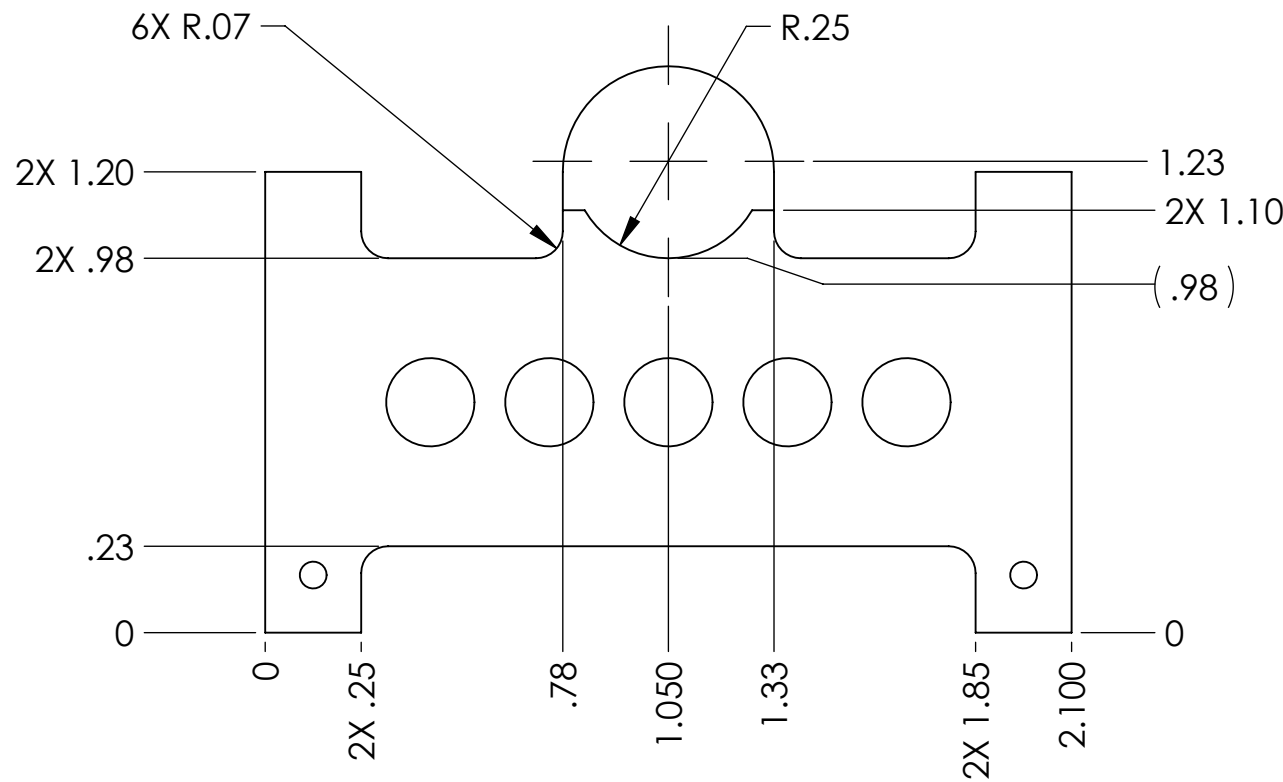
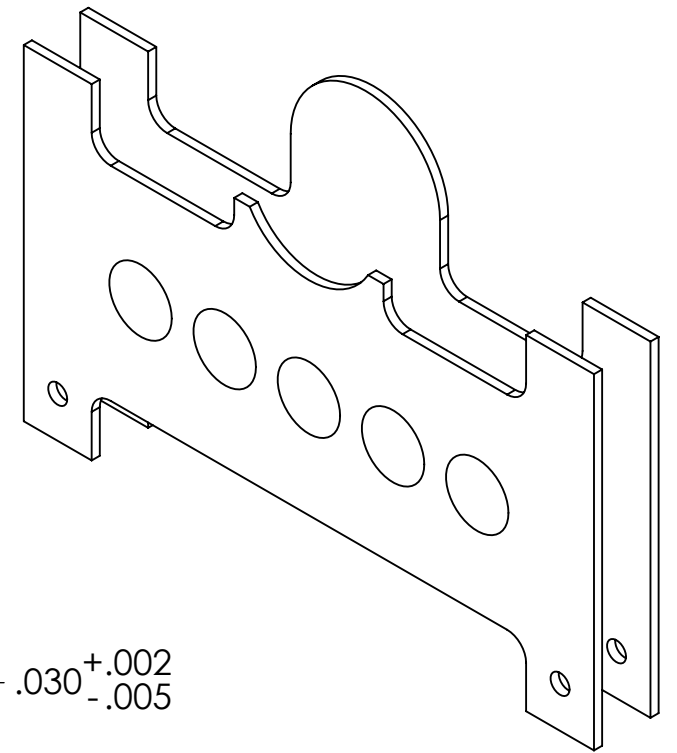
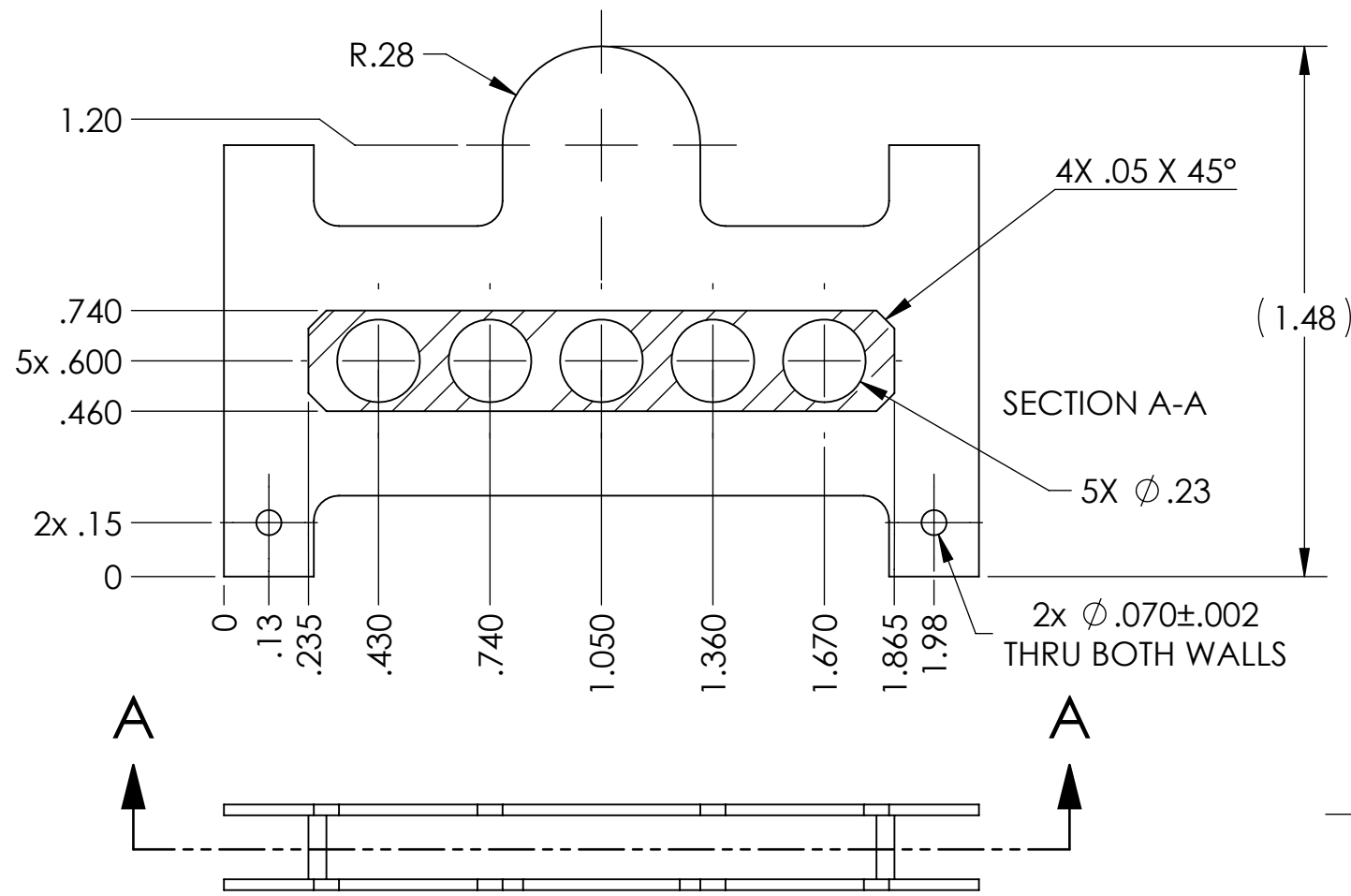
7. MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED. REFER TO LIGO-E0900364

8. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

9. MATERIAL: PEEK, VICTREX 450CA (KETRON® PEEK-CA30 LSG). AVAILABLE FROM BOEDEKER PLASTICS. MATERIAL CERTIFICATION DOCUMENTATION IS REQUIRED. [www.boedeker.com/peek\\_p.htm](http://www.boedeker.com/peek_p.htm)

10. ALL MATERIAL IS TO BE VIRGIN MATERIAL (i.e. NO WELD REPAIRS, PLUGS OR RECYCLED MATERIAL). NO REPAIRS SHALL BE MADE UNLESS APPROVED IN ADVANCE, AND IN WRITING, BY LIGO LABORATORY. REFER TO LIGO-E0900364.

REV.	DATE	DCN #	DRAWING TREE #
V1	APR 2013	NOT FABRICATED	-
V2	MAY 2013	PROTOTYPE	-
V3	1 NOV 2013	E1300385-x0	-



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES		1. INTERPRET DRAWING PER ASME Y14.5-1994.	
TOLERANCES:		2. REMOVE ALL SHARP EDGES, .005-.015, FOR MACHINED PARTS..	
.XX ± .01		3. DO NOT SCALE FROM DRAWING.	
.XXX ± .005		4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.	
ANGULAR ± 0.5°		MATERIAL	FINISH
		PEEK	63 μinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
SYSTEM		BOBBIN, FAST SHUTTER, ISC, aLIGO	
ADVANCED LIGO		DESIGNER	SBARNUM
NEXT ASSY		DRAFTER	SBARNUM
D1003318		CHECKER	JLEWIS
		APPROVAL	PFRITSCHEL

DESIGNER	SBARNUM	10 APR 2013	SIZE	DWG. NO.	REV.
DRAFTER	SBARNUM	8 MAY 2013	B	D1300320	v3
CHECKER	JLEWIS		SCALE:	2:1	PROJECTION:
APPROVAL	PFRITSCHEL				SHEET 1 OF 1