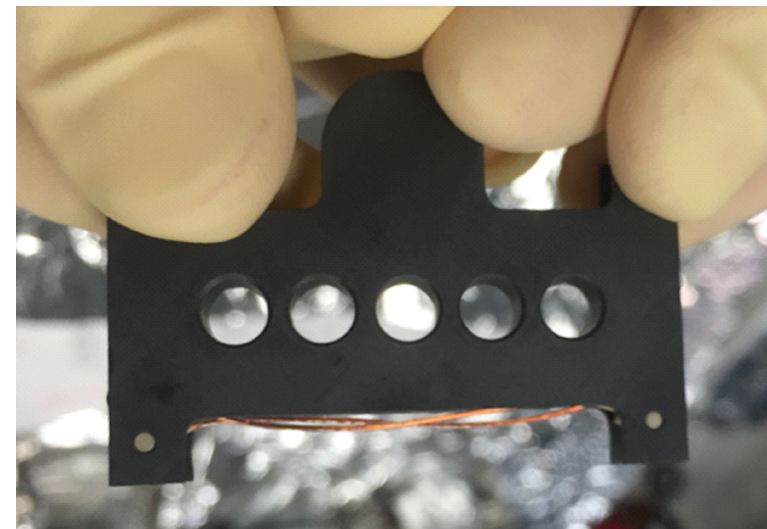
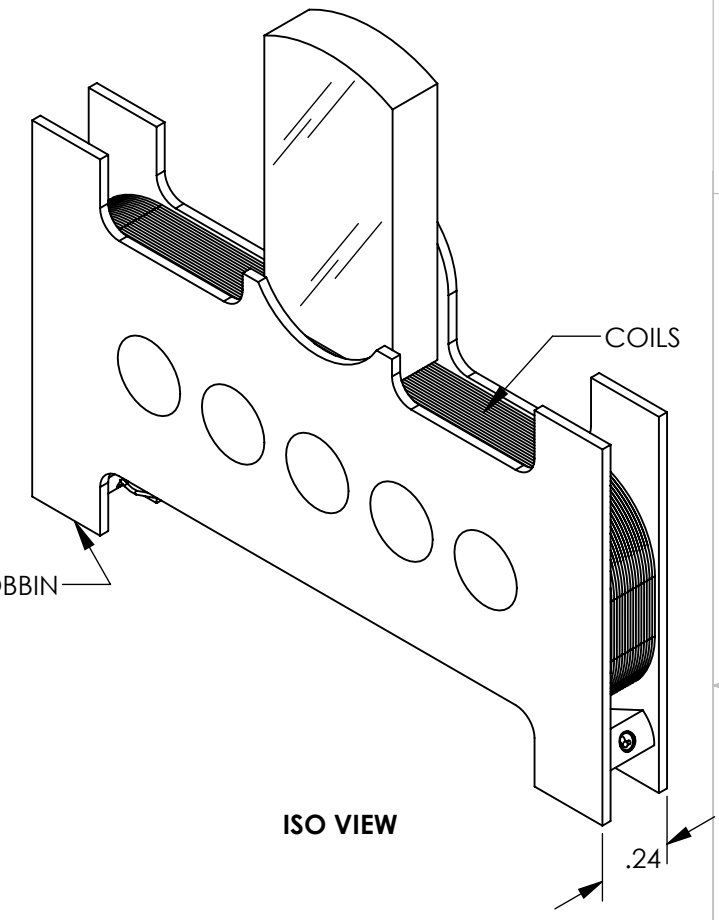
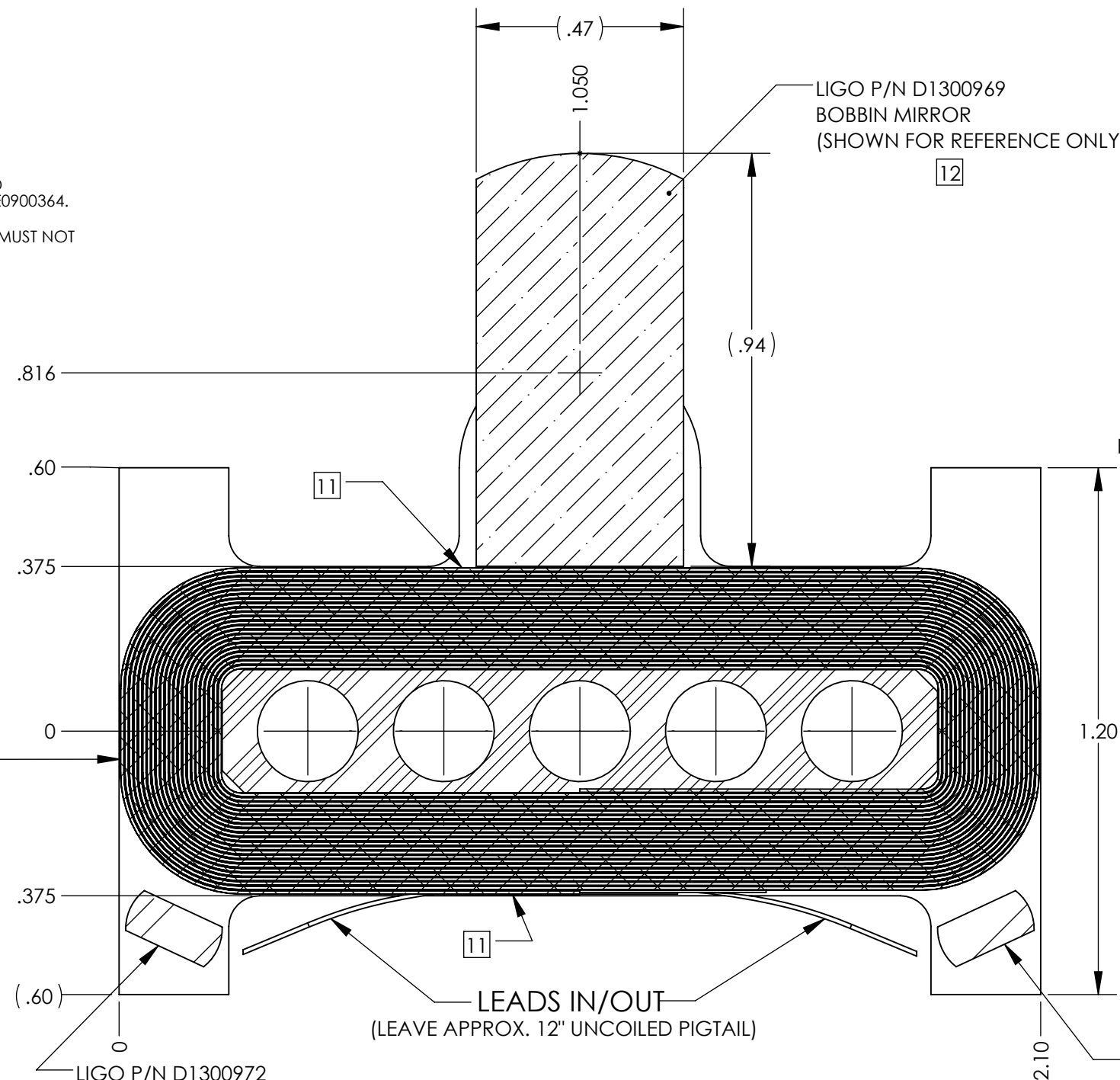
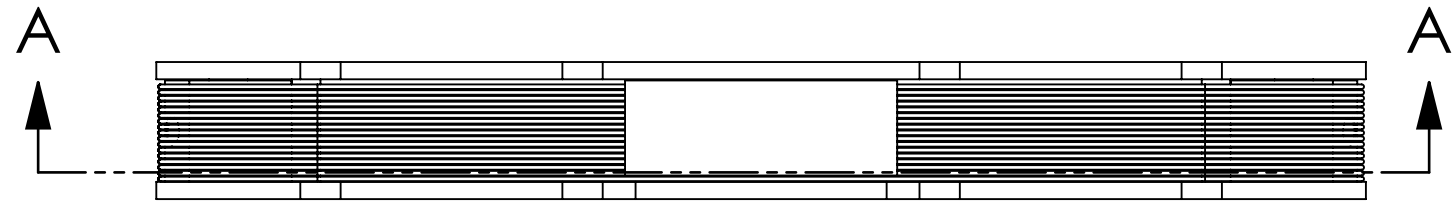


NOTES CONTINUED:

- 5. APPROXIMATE WEIGHT = 18-20 grams.
- 6. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.
- 7. BOBBIN MATERIAL IS PEEK, VICTREX, 450CA. AVAILABLE FROM BOEDEKER PLASTICS. MATERIAL CERTIFICATION DOCUMENTATION IS REQUIRED. www.boedeker.com/peek_p.htm SUPPLIED BY LIGO (FINISHED BOBBINS)
- 8. COILS ARE #32 AWG OXYGEN FREE COPPER WIRE, MWS WIRE INDUSTRIES 32HMW, POLYIMIDE-ML INSULATION. SUPPLIED BY LIGO
- 9. COIL POTTING MATERIAL EPOXY PAX EP-1730-1. TOPCOAT POTTING IS REQUIRED, BUT FULL POTTING IS ALLOWED. NOT SUPPLIED BY LIGO
- 10. ALL MATERIAL IS TO BE VIRGIN MATERIAL (i.e. PLUGS OR RECYCLED MATERIAL). NO REPAIRS SHALL BE MADE UNLESS APPROVED IN ADVANCE, AND IN WRITING, BY LIGO LABORATORY. REFER TO LIGO- E0900364.
- 11. FILL BOBBIN WITH AS MANY WINDINGS AS POSSIBLE. COILS AND POTTING MUST NOT EXCEED EXTERNAL DIMENSION OF BOBBIN.
- 12. INDICATED ITEM TO BE INSTALLED BY LIGO PERSONNEL AFTER WINDING.

| REV. | DATE | DCN # | DRAWING TREE # |
|------|-------------|-------------|----------------|
| v4 | 18 AUG 2015 | E1500350-x0 | - |
| - | - | - | - |
| - | - | - | - |



BOBBIN COIL ASSEMBLY
(SHOWN FOR REFERENCE ONLY)

SECTION A-A
SCALE: ENLARGED

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

| | | |
|---|-----------|----------------------|
| LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY | PART NAME | BOBBIN-COIL Assembly |
| SYSTEM ADVANCED LIGO | DESIGNER | SBARNUM |
| NEXT ASSY D1003318 | DRAFTER | SBARNUM |
| | CHECKER | |
| | APPROVAL | PFRITSCHEL |

| | | | | | |
|----------|------------|------------|------------|-----------------|--------------|
| DESIGNER | SBARNUM | APR 2013 | SIZE | DWG. NO. | REV. |
| DRAFTER | SBARNUM | 1 MAY 2013 | B | D1003319 | v4 |
| CHECKER | | | SCALE: 2:1 | PROJECTION: | SHEET 1 OF 1 |
| APPROVAL | PFRITSCHEL | | | | |

D1003319 BOBBIN-COIL Assembly, ISC, aLIGO, PART PDM REV: X-022, DRAWING PDM REV: X-005