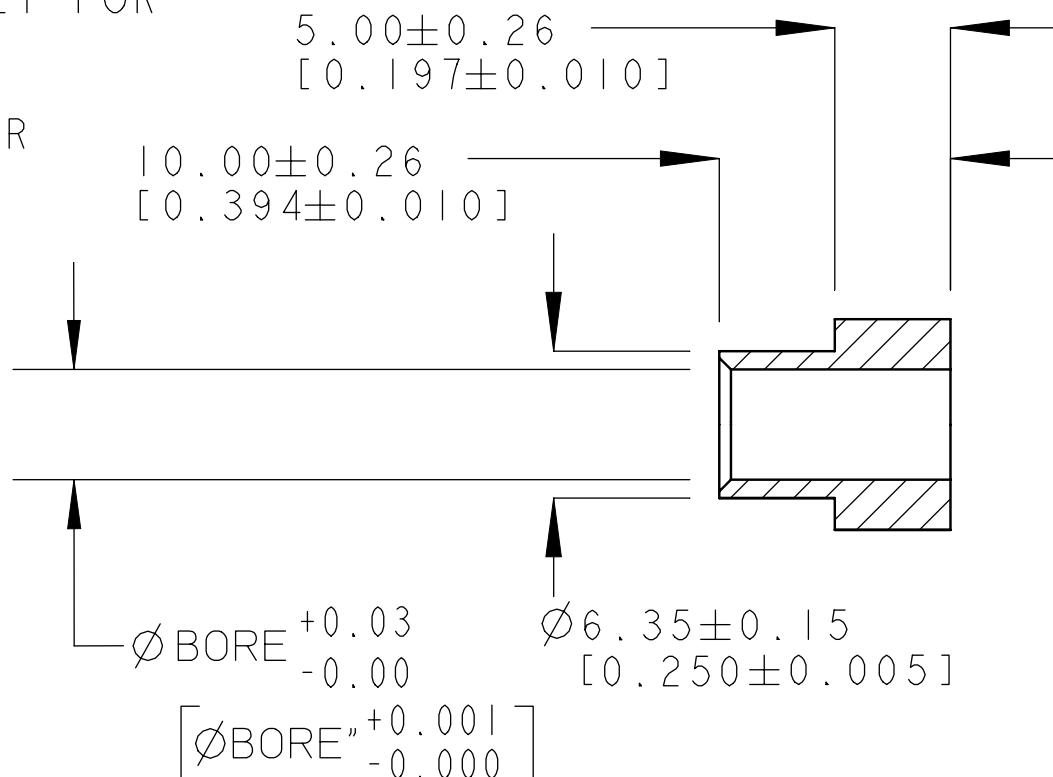
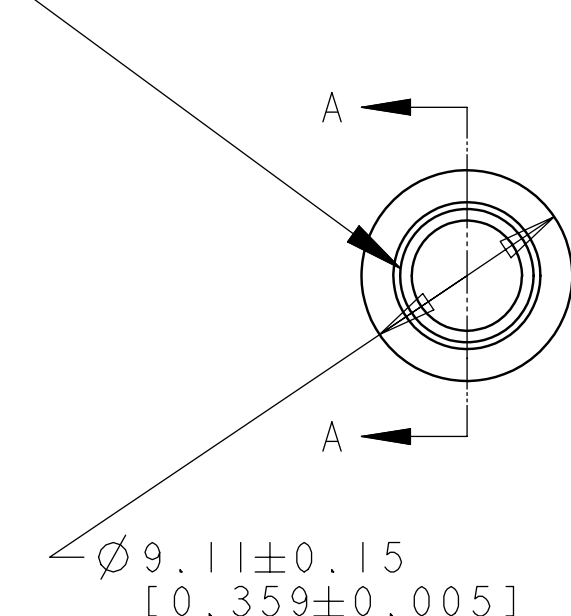


# NOTES:

1. DIMENSIONS IN MM [IN].
2. NUMBER REQ., BORE DIA., AND MATERIAL AS SHOWN IN TABLE.
3. USE SUPPLIED STOCK ONLY FOR 6063 FITTINGS.

45°X0.50[.020] CHAMFER



## SECTION A-A

|          | FITTING SIZE 1 |           | FITTING SIZE 2 |           |
|----------|----------------|-----------|----------------|-----------|
| MATERIAL | BORE Ø         | NUM. REQ. | BORE Ø         | NUM. REQ. |
| AL6061   | 4.52[0.178]    | 10        | 4.78[0.188]    | 10        |
| AL6063   | 4.52[0.178]    | 10        | 4.78[0.188]    | 10        |

|                                                  |               |                |                 |                     |                  |                                                         |  |                     |
|--------------------------------------------------|---------------|----------------|-----------------|---------------------|------------------|---------------------------------------------------------|--|---------------------|
| REV                                              | DWG           | CHK            | DATE            | CHANGES             |                  | DESCRIPTION                                             |  | SEE TABLE           |
| UNLESS OTHERWISE SPECIFIED                       |               |                |                 | SHOP ORDERS         |                  | ERNEST ORLANDO LAWRENCE<br>BERKELEY NATIONAL LABORATORY |  | MATERIAL            |
| TOLERANCES                                       | X.X ± 0.1     | FRAC. ± 1/64   | ACT NO.         | NO. REQD            | SER NO.          | UNIVERSITY OF CALIFORNIA - BERKELEY                     |  |                     |
|                                                  | X.XX ± 0.01   | Angles ± 1.00° | DEL TO          | DATE ISSD           | DATE REQD        | ATLAS PIXEL DETECTOR                                    |  |                     |
|                                                  | X.XXX ± 0.001 | FINISH 125 µm  | SURFACE TREATMT |                     | COOLING SERVICES |                                                         |  |                     |
| DO NOT SCALE PRINT                               |               |                |                 | IDENT METHOD TAG    |                  | DUMMY WELD FITTING                                      |  |                     |
| THREADS ARE CLASS 2                              |               |                |                 | PROJECT NUMBER      |                  | ATLAS PIXEL DETECTOR                                    |  |                     |
| CHAMFER ENDS OF ALL SCREW THREADS 30°            |               |                |                 | PROJECT NAME        |                  | COOLING SERVICES                                        |  |                     |
| CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS |               |                |                 | DWG BY N. HARTMAN   |                  | DUMY WELD FITTING                                       |  |                     |
| BREAK EDGES .016 MAX. ON MACHINED WORK           |               |                |                 | DATE 03-Apr-02      |                  | SCALE: 3/1                                              |  | DO NOT SCALE PRINTS |
| REMOVE BURRS, WELD SPLATTER & LOOSE SCALE        |               |                |                 | DATE                |                  | SHEET 1 OF 1                                            |  |                     |
| IN ACCORDANCE WITH ASME Y14.5M & B46.1           |               |                |                 | DATE                |                  | DWG. NO. 21F5721                                        |  | SIZE 1              |
|                                                  |               |                |                 | APR BY E. ANDERSSON |                  | CATEGORY CODE AP8220                                    |  | REV. 1              |