

NOTES:

- SUBSTRATE:  
ELEMENT A: N-BK7 517/642  
ELEMENT B: N-SF5 673/322
- ROHS COMPLIANT
- CENTERING TOLERANCE (AT 587.6nm):  
BEAM DEVIATION (HALF ANGLE): <1 ARCMIN
- COATING (APPLY ACROSS COATING APERTURE)  
S1 & S4: VIS 0°  
R(AVG) ≤ 0.4% FROM 425 - 675nm @ 0° AOI  
S2 & S3: NONE

5 FINE GRIND SURFACE

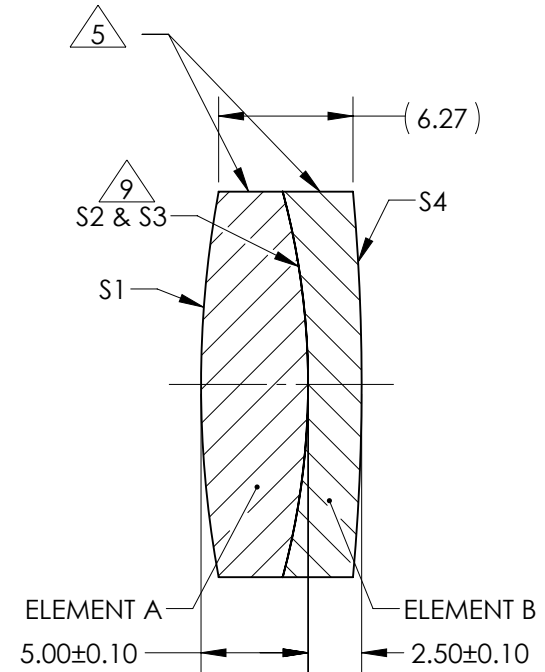
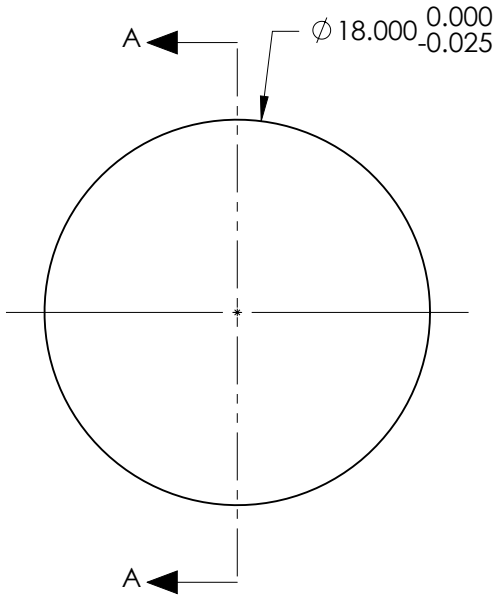
6. POWER, IRREGULARITY, AND SURFACE QUALITY  
SPECIFICATIONS APPLY ACROSS CLEAR APERTURE

7. FOCAL LENGTH (EFL): 80.00mm±1%  
BACK FOCAL LENGTH (BFL): 76.52mm

8. PROTECTIVE BEVEL AS NEEDED

9. DESIGN WAVELENGTH: 587.6nm

9 ELEMENTS TO BE CEMENTED WITH NORLAND OPTICAL  
ADHESIVE NOA61



SECTION A-A

**FOR INFORMATION ONLY:  
DO NOT MANUFACTURE  
PARTS TO THIS DRAWING**

| ELEMENT TITLE           | SPECIFICATIONS AFTER CEMENTING |            |            |            |
|-------------------------|--------------------------------|------------|------------|------------|
|                         | ELEMENT A                      |            | ELEMENT B  |            |
| SURFACE                 | S1                             | S2         | S3         | S4         |
| SHAPE                   | CONVEX                         | CONVEX     | CONCAVE    | CONVEX     |
| RADIUS                  | 49.67                          | 34.73      | 34.73      | 100.11     |
| SURFACE QUALITY         | 40 - 20                        | 40 - 20    | 40 - 20    | 40 - 20    |
| MIN CLEAR APERTURE      | Ø 17.00                        | Ø 17.00    | Ø 17.00    | Ø 17.00    |
| MIN COATING APERTURE    | Ø 17.00                        | N/A        | N/A        | Ø 17.00    |
| POWER AT 632.8nm        | 3.00 RINGS                     | 3.00 RINGS | 3.00 RINGS | 3.00 RINGS |
| IRREGULARITY AT 632.8nm | 0.50 RINGS                     | 0.50 RINGS | 0.50 RINGS | 0.50 RINGS |

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE  
DIMENSIONS ARE FOR REFERENCE ONLY

**EO**® Edmund Optics®

|                        |    |        |                                                       |                 |
|------------------------|----|--------|-------------------------------------------------------|-----------------|
| THIRD ANGLE PROJECTION |    | TITLE  | 18mm Dia. x 80mm FL, VIS 0 Coated,<br>Achromatic Lens |                 |
| ALL DIMS IN            | mm | DWG NO | 47711                                                 | SHEET<br>1 OF 1 |