NOTES:

1. SUBSTRATE:
   ELEMENT A: N-SSK8 618/498
   ELEMENT B: N-SF10 728/284
2. ROHS COMPLIANT
3. CENTERING TOLERANCE (AT 587.6nm):
   BEAM DEVIATION (HALF ANGLE): <1 ARCMIN
4. COATING (APPLY ACROSS COATING APERTURE)

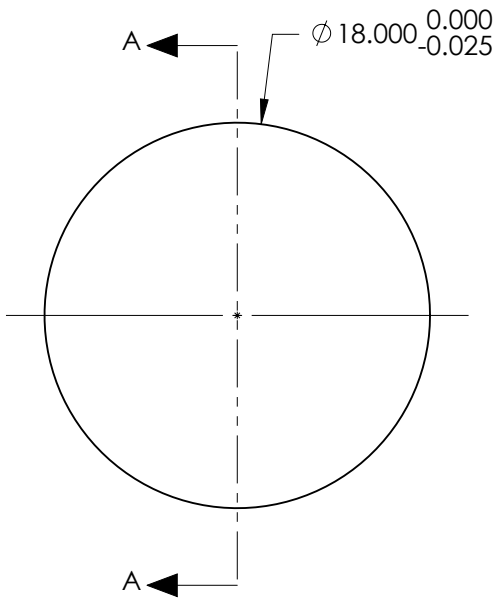
   S1 & S4: VIS-NIR
   R(ABS) ≤ 0.25% @ 880nm @ 0° AOI
   R(AVG) ≤ 1.25% FROM 400 - 870nm @ 0° AOI
   R(AVG) ≤ 1.25% FROM 890 - 1000nm @ 0° AOI

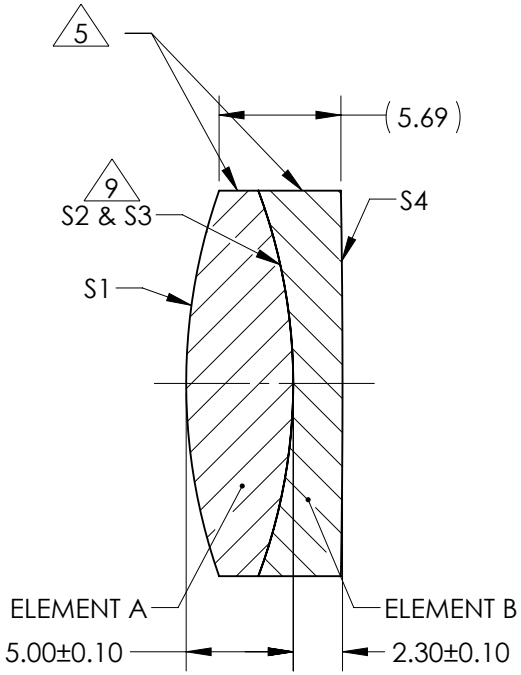
   S2 & S3: NONE

△5 FINE GRIND SURFACE

6. POWER, IRREGULARITY, AND SURFACE QUALITY SPECIFICATIONS APPLY ACROSS CLEAR APERTURE
7. FOCAL LENGTH (EFL): 50.00mm±1%
   BACK FOCAL LENGTH (BFL): 45.24mm
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**

| | SPECIFICATIONS AFTER CEMENTING | | | |
|---|---|---|---|---|
| ELEMENT TITLE | ELEMENT A | | ELEMENT B | |
| SURFACE | S1 | S2 | S3 | S4 |
| SHAPE | CONVEX | CONVEX | CONCAVE | CONVEX |
| RADIUS | 27.12 | 25.66 | 25.66 | 538.70 |
| SURFACE QUALITY | 40 - 20 | 40 - 20 | 40 - 20 | 40 - 20 |
| MIN CLEAR APERTURE | ∅17.00 | ∅17.00 | ∅17.00 | ∅17.00 |
| MIN COATING APERTURE | ∅17.00 | N/A | N/A | ∅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

Edmund Optics®

THIRD ANGLE PROJECTION

ALL DIMS IN mm

TITLE: 18mm Dia. x 50mm FL VIS-NIR Coated, Achromatic Lens

DWG NO: 49343

SHEET 1 OF 1