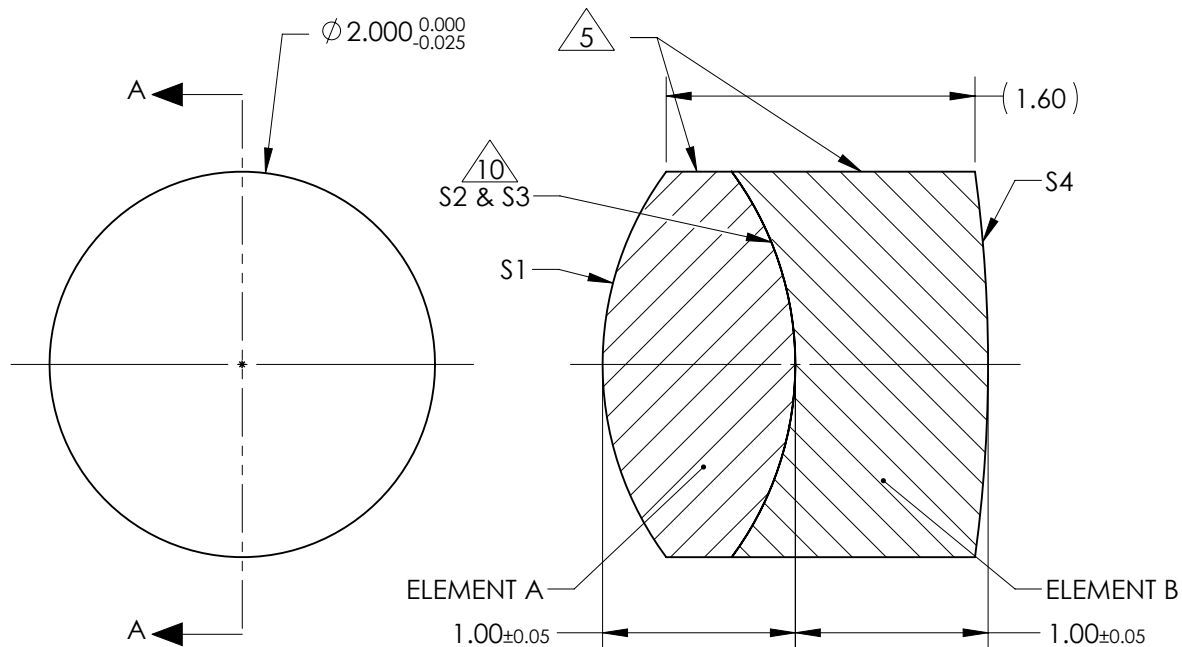


1. SUBSTRATE:  
ELEMENT A: GRADE A FINE ANNEALED  
SCHOTT: N-PSK53A 618/634  
  
ELEMENT B: GRADE A FINE ANNEALED  
SCHOTT: N-LqSF9 850/322
2. ROHS COMPLIANT
3. CENTERING TOLERANCE (AT 587.6nm):  
BEAM DEVIATION (HALF ANGLE): <45 ARCMIN
4. COATING (APPLY ACROSS COATING APERTURE)  
  
S1 & S4:  
1/4 WAVE MgF2 @ 550nm  
R(AVG) < 1.75% FROM 400-700nm (N-BK7)  
S2 & S3: NONE
5. FINE GRIND SURFACE
6. POWER, IRREGULARITY, AND SURFACE QUALITY  
SPECIFICATIONS APPLY ACROSS CLEAR APERTURE
7. FOCAL LENGTH (EFL): 3.00mm  $\pm 2\%$   
BACK FOCAL LENGTH (BFL): 1.89mm
8. PROTECTIVE BEVEL AS NEEDED
9. DESIGN WAVELENGTH: 587.6nm
10. ELEMENTS TO BE CEMENTED WITH NORLAND OPTICAL  
ADHESIVE NOA61



**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                  | 1.68                           | 1.68       | 1.68       | 7.39       |
| SURFACE QUALITY         | 20 - 10                        | 20 - 10    | 20 - 10    | 20 - 10    |
| MIN CLEAR APERTURE      | Ø 1.50                         | Ø 1.50     | Ø 1.50     | Ø 1.50     |
| MIN COATING APERTURE    | Ø 1.50                         | N/A        | N/A        | Ø 1.50     |
| 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 |

 Edmund Optics®

|        |                                                              |  |                 |
|--------|--------------------------------------------------------------|--|-----------------|
| TITLE  | 2mm Dia. x 3.0mm FL, MgF2 Coated,<br>Achromatic Doublet Lens |  |                 |
| DWG NO | 65567                                                        |  | SHEET<br>1 OF 1 |