

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): <3 ARCMIN
- COATING (APPLY ACROSS COATING APERTURE)

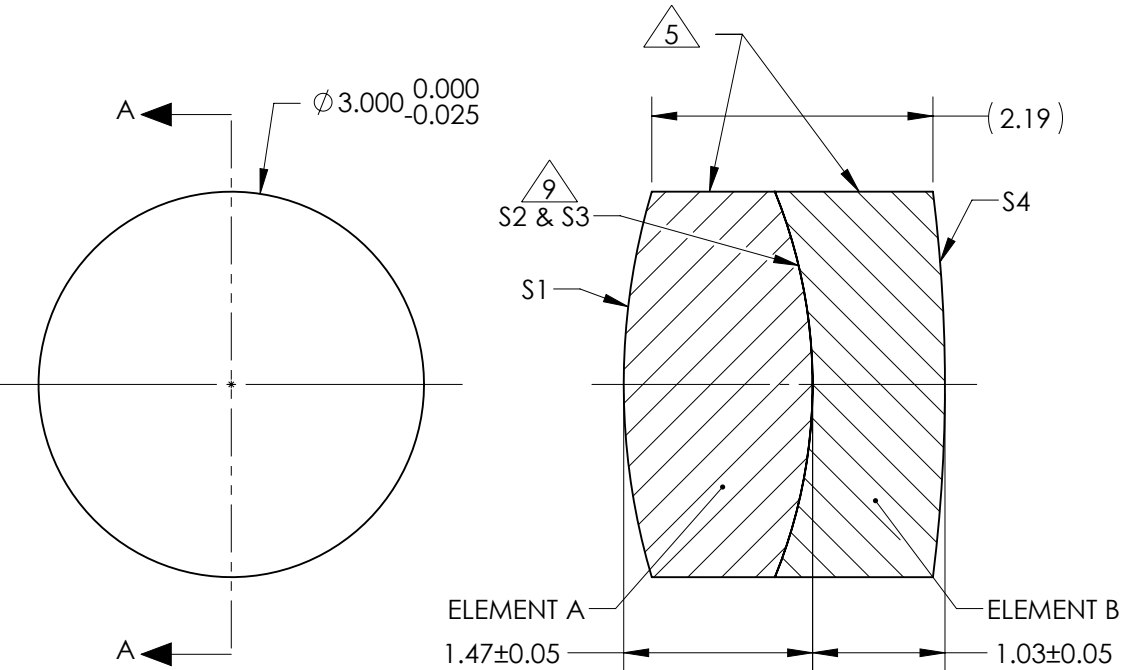
S1 & S4:  
1/4 WAVE MgF2 @ 550nm  
R(AVG) < 1.75% FROM 400 - 700nm (N - BK7)

S2 & S3: NONE

5 FINE GRIND SURFACE

- POWER, IRREGULARITY, AND SURFACE QUALITY SPECIFICATIONS APPLY ACROSS CLEAR APERTURE
- FOCAL LENGTH (EFL): 9.00mm±1%  
BACK FOCAL LENGTH (BFL): 7.79mm
- PROTECTIVE BEVEL AS NEEDED
- 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                  | 5.26                           | 3.98       | 3.98       | 12.05      |
| SURFACE QUALITY         | 20 - 10                        | 20 - 10    | 20 - 10    | 20 - 10    |
| MIN CLEAR APERTURE      | Ø 2.50                         | Ø 2.50     | Ø 2.50     | Ø 2.50     |
| MIN COATING APERTURE    | Ø 2.50                         | N/A        | N/A        | Ø 2.50     |
| 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 |

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE  
DIMENSIONS ARE FOR REFERENCE ONLY

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|                        |    |        |                                                            |                 |
|------------------------|----|--------|------------------------------------------------------------|-----------------|
| THIRD ANGLE PROJECTION |    | TITLE  | 3mm Dia. x 9mm FL, MgF2 Coated,<br>Achromatic Doublet Lens |                 |
| ALL DIMS IN            | mm | DWG NO | 45090                                                      | SHEET<br>1 OF 1 |