NOTES:

1. SUBSTRATE:
   ELEMENT A: N-BK7 517/642
   ELEMENT B: N-SF5 673/322
2. ROHS COMPLIANT
3. CENTERING TOLERANCE (AT 587.6nm):
   BEAM DEVIATION (HALF ANGLE): <1 ARCMIN
4. COATING (APPLY ACROSS COATING APERTURE)

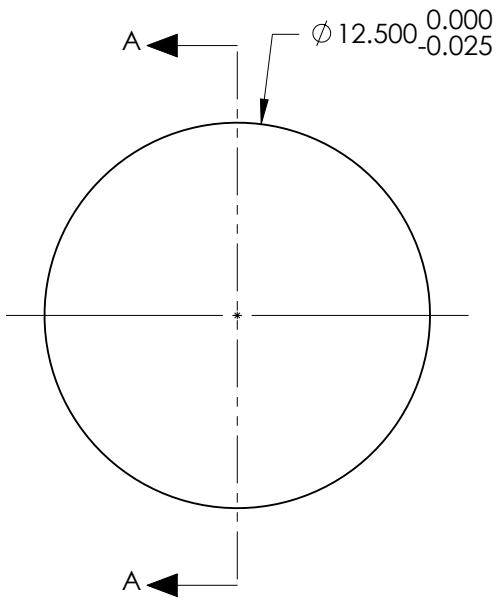
   S1 & S4: VIS-NIR
   R(ABS) ≤ 0.25% @ 880nm @ 0° AOI
   R(AVG) ≤ 1.25% FROM 400 - 870nm @ 0° AOI
   R(AVG) ≤ 1.25% FROM 890 - 1000nm @ 0° AOI

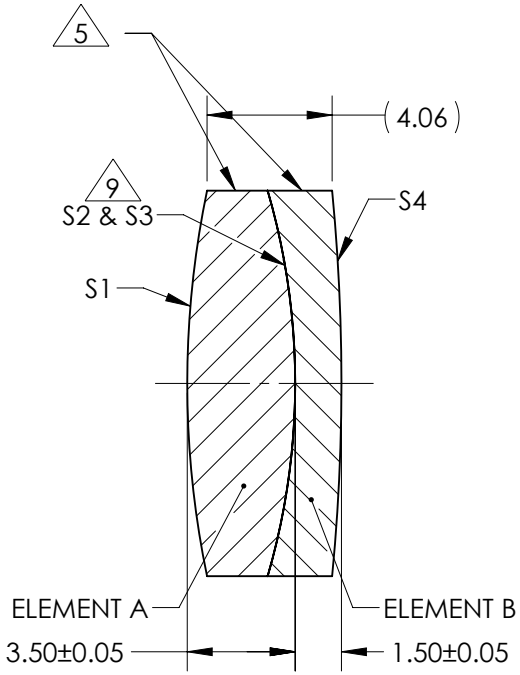
   S2 & S3: NONE

△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): 47.61mm
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	30.73	22.32	22.32	64.75
SURFACE QUALITY	40 - 20	40 - 20	40 - 20	40 - 20
MIN CLEAR APERTURE	∅11.50	∅11.50	∅11.50	∅11.50
MIN COATING APERTURE	∅11.50	N/A	N/A	∅11.50
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

Edmund Optics®

THIRD ANGLE PROJECTION

ALL DIMS IN mm

TITLE: 12.5mm Dia. x 50mm FL, VIS-NIR Coated, Achromatic Lens

DWG NO: 49328

SHEET 1 OF 1