NOTES:

1. SUBSTRATE:
   ELEMENT A: S-FSL5
   ELEMENT B: N-SF57
2. CENTERING: 3-5 ARCMIN
3. COATING:

   S1: R(AVG) ≤ 0.4% FROM 425-675nm @ 0° AOI

   S2, S3, & S4: NONE

4. FINE GRIND SURFACE

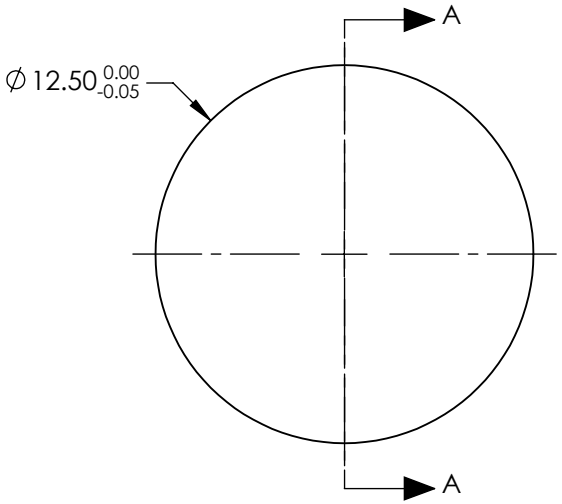
5. ELEMENTS TO BE CEMENTED WITH NORLAND OPTICAL ADHESIVE NOA 61

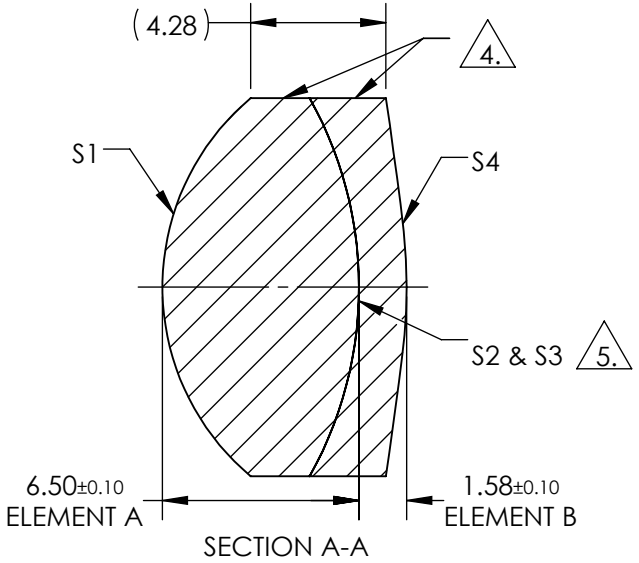
6. POLYMER ASPHERE APPLIED TO S4 OF ACHROMAT:

MATERIAL: n_d=1.517, V_d=52.0
CENTER THICKNESS: 0.080mm ADDED TO S4
CLEAR APERTURE(CENTERED ON S4 WITH NO MACRO DEFECTS):

$$Z_{ASPH}(Y) = \frac{(1/RADIUS)*Y^2}{1+\sqrt{1-(1+k)*(1/RADIUS)^2*Y^2}} + D*Y^2 + E*Y^4 + F*Y^6 + G*Y^8 + H*Y^{10} + J*Y^{12} + L*Y^{14}$$

FOR INFORMATION ONLY:
DO NOT MANUFACTURE PARTS TO THIS DRAWING





SECTION A-A

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
DIMENSIONS ARE FOR REFERENCE ONLY

	S1	S2	S3	S4
SHAPE	CONVEX	CONVEX	CONCAVE	CONVEX
RADIUS	8.15	12.80	12.80	15.85 6.
SURFACE QUALITY	60-40	60-40	60-40	60-40
MIN CLEAR APERTURE	Ø11.50	Ø11.50	Ø11.50	Ø10.50
BEVEL MAX FACE	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED

COEFFICIENT TABLE 6.

COEFFIECIENT	S1
SEMI-DIAMETER	5.750000E+00
(1/RADIUS)	-6.308658E-02
k	0.000000E+00
D	0.000000E+00
E	6.406732E-04
F	-6.524141E-06
G	0.000000E+00
H	0.000000E+00
J	0.000000E+00
L	0.000000E+00

EFL: 14.00mm
BFL: 9.89mm
THIRD ANGLE PROJECTION
ALL DIMS IN mm

Edmund Optics®

TITLE: 12.5mm DIAMETER x 14mm EFL ASPHERIZED ACHROMATIC LENS
DWG NO: 49658
SHEET 1 OF 1