NOTES:

1. SUBSTRATE:
   S-LAH64

2. CENTERING TOLERANCE (AT 587.6nm):
   BEAM DEVIATION (HALF ANGLE): <3 arcmin

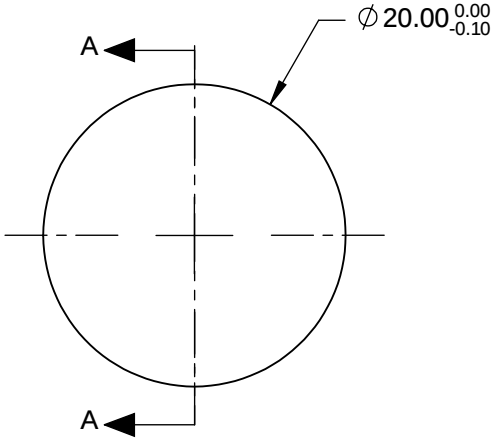
3. COATING (APPLY ACROSS COATING APERTURE)
   S1: SWIR (900-1700nm)
   Ravg < 0.5% @ 900 - 1700nm @ ±30° AOI
   Rabs < 1% @ 900 - 1700nm @ ±30° AOI
   S2: SWIR (900-1700nm)
   Ravg < 0.5% @ 900 - 1700nm @ ±30° AOI
   Rabs < 1% @ 900 - 1700nm @ ±30° AOI

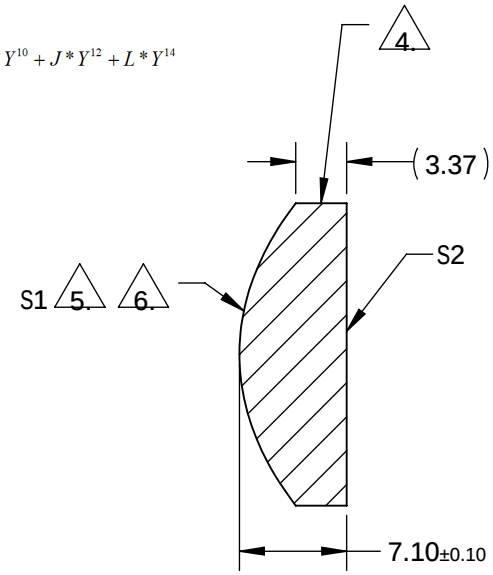
4. EDGES: FINE GROUND

5. ASPHERIC FIGURE ERROR: 0.75 µm RMS

6. ASPHERIC SURFACE DESCRIBED BY (REF. COEFFICIENT TABLE):

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





SECTION A-A

FOR INFORMATION ONLY:
DO NOT MANUFACTURE PARTS TO THIS DRAWING

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
DIMENSIONS ARE FOR REFERENCE ONLY

COEFFIECIENT TABLE 6.	
COEFFIECIENT	**S1**
SEMI-DIAMETER	1.000000E+01
(1/RADIUS)	7.15307582E-02
k	-1.001000E+00
D	0.000000E+00
E	1.662800E-05
F	-4.509800E-09
G	-3.844600E-09
H	-6.070000E-10
J	2.042000E-16
L	0.000000E+00

	S1	S2
SHAPE	CONVEX	PLANO
RADIUS	13.980	INFINITY
SURFACE QUALITY	40-20	40-20
CLEAR APERTURE	18 mm	18 mm
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED

BFL @ 780nm: 14.00

THIRD ANGLE PROJECTION

ALL DIMS IN mm

Edmund Optics®

TITLE: 20mm Dia., 0.56 NA, 900-1700nm Coated, NIR Aspheric Lens

DWG NO: 16295

SHEET 1 OF 1