NOTES: UNLESS OTHERWISE SPECIFIED

1. -OAI- IS THE THEORETICAL OPTIC AXIS OF THE FIRST OPTIC SURFACE.

2. ASPHERIC SURFACES ARE DEFINED BY:

$$z(r) = \frac{r^2/R_c}{1 + \sqrt{1 - (1 + K)(r/R_c)^2}} + \sum_i A_{2i} r^{2i}$$

WHERE: r = RADIAL DISTANCE FROM VERTEX IN mm

3. SURFACE DEFINITIONS:

	SURFACE 1	SURFACE 2
TYPE	ASPHERE	PLANO
SHAPE	CX	PL
CA	$\varnothing$5.75	$\varnothing$4.66
R_C	3.952444	PLANO
K	-1.0	0.000000
A_2	0.000000E0	0.000000E0
A_4	9.285477E-4	0.000000E0
A_6	9.425900E-6	0.000000E0
A_8	7.458436E-8	0.000000E0
A_{10}	-2.454230E-9	0.000000E0
A_{12}	0.000000E0	0.000000E0
A_{14}	0.000000E0	0.000000E0
A_{16}	0.000000E0	0.000000E0

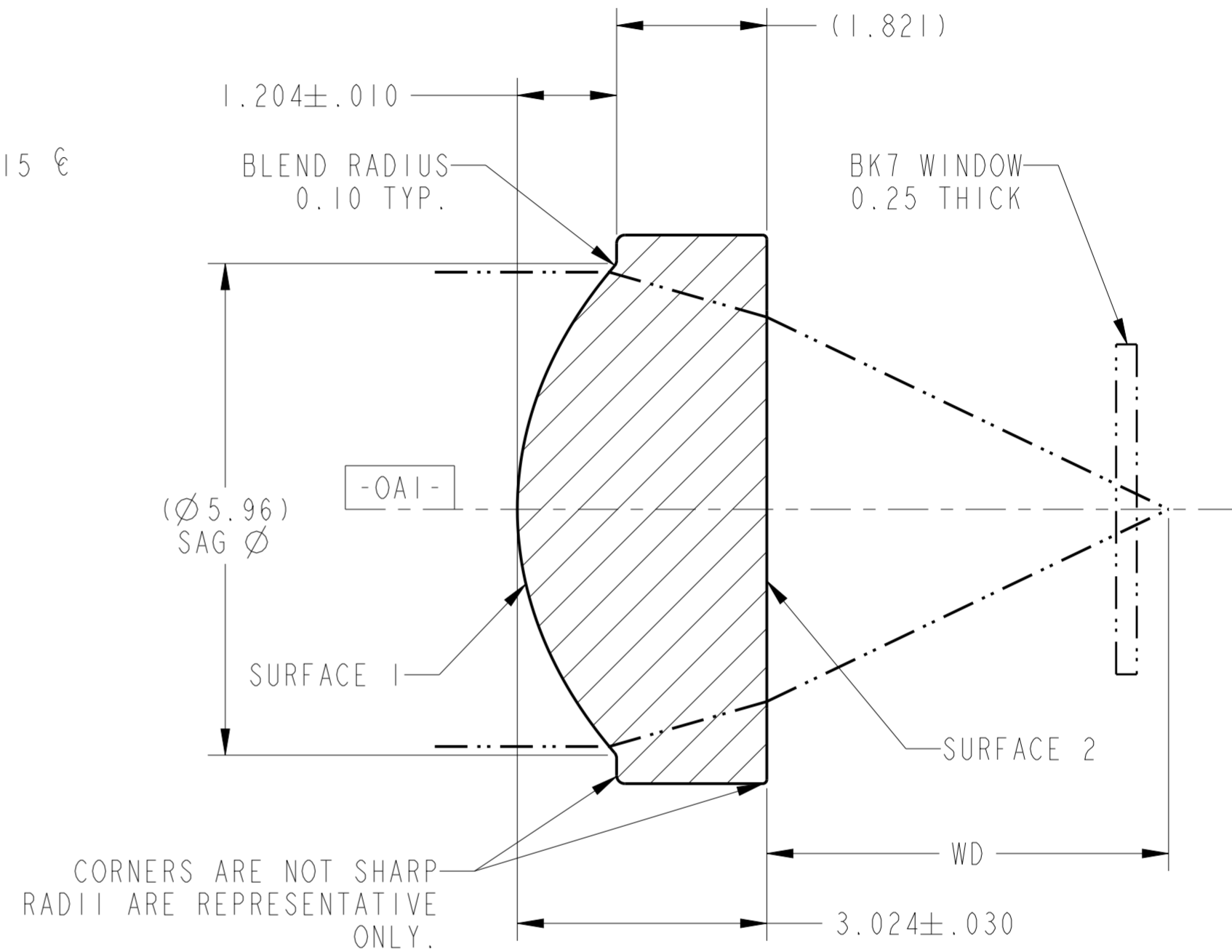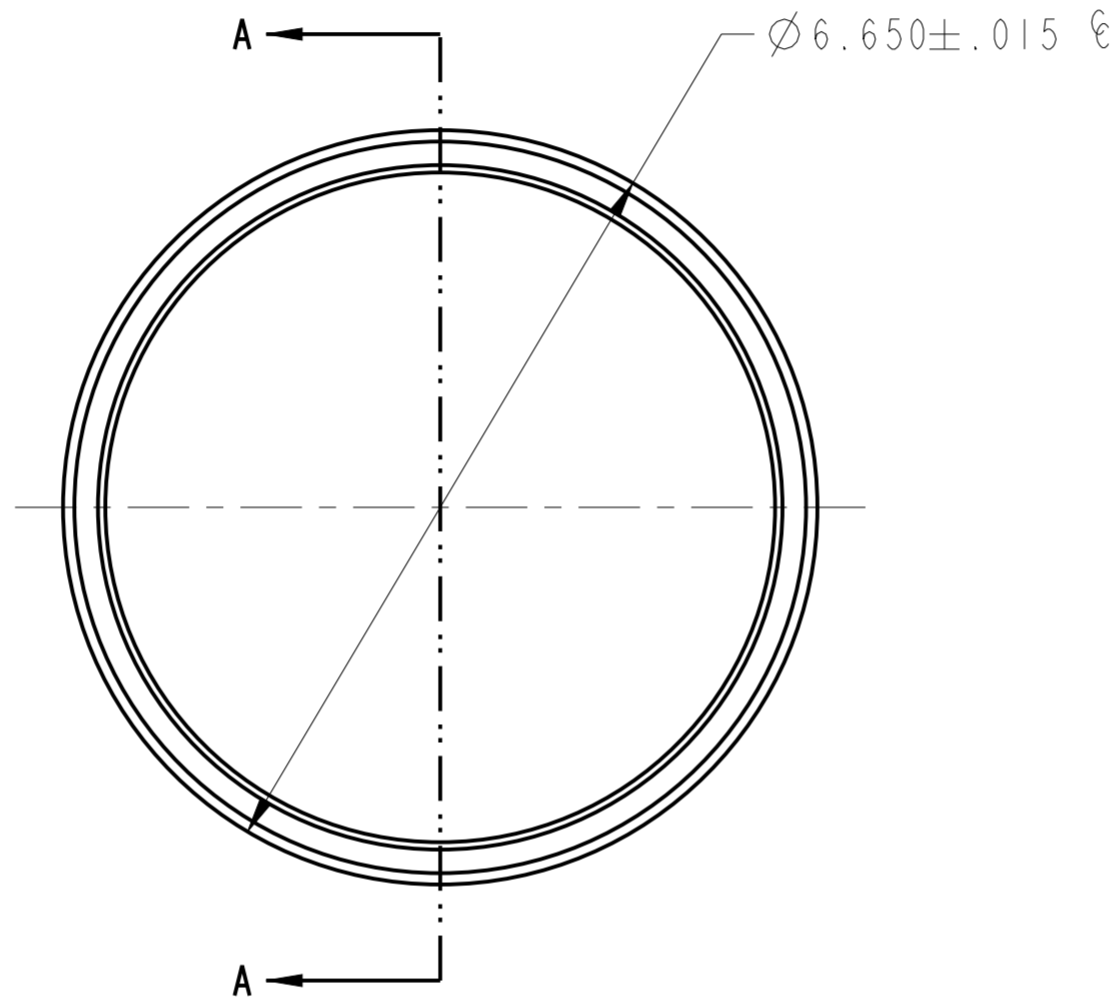4. NOMINAL DESIGN PARAMETERS:

DESIGN WAVELENGTH	515nm
W.D.	4.9mm
N.A.	0.44
E.F.L.	6.7mm ± 1.0%

5. FEATURES IDENTIFIED AS ₵ ARE CRITICAL CHARACTERISTICS.
   CRITICAL CHARACTERISTICS ARE GUARANTEED IN PRODUCTION.

6. THIS ELEMENT MUST MEET THE SCRATCH/DIG REQUIREMENTS ACROSS THE FULL CLEAR
   APERTURES INDICATED, BOTH SIDES, PER LIGHTPATH PWI INS-8.2-05P6.₵
   -00: S/D: 60/40

7. THIS ELEMENT IS USED AS A COLLIMATING LENS.
   WAVEFRONT ERROR: <0.05 WAVES RMS @ 632.8 nm
   PER LIGHTPATH PWI INS-8.2-13.₵

$\varnothing$6.650±.015 ₵

A

A

(1.821)

1.204±.010

BLEND RADIUS
0.10 TYP.

BK7 WINDOW
0.25 THICK

-OAI-

($\varnothing$5.96)
SAG $\varnothing$

SURFACE 1

SURFACE 2

CORNERS ARE NOT SHARP
RADII ARE REPRESENTATIVE
ONLY.

WD

3.024±.030

SECTION A-A

TITLE
LENS CODE 354525

DRAWN
PL\ORL
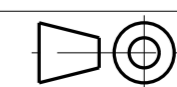
MATERIAL
D-ZK3(m)

SIZE
A2

DWG NO
0354525

REV
A

SOFTWARE
Pro/ENGINEER

SCALE:
15.00

THIRD ANGLE PROJECTION

SHEET
1 OF 1

RoHS

DWG NO
0354525

REV
A

SH
1