

NOTES: UNLESS OTHERWISE SPECIFIED

1. **-OA1-** 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: Y= RADIAL DISTANCE FROM VERTEX IN mm

3. SURFACE DEFINITIONS:

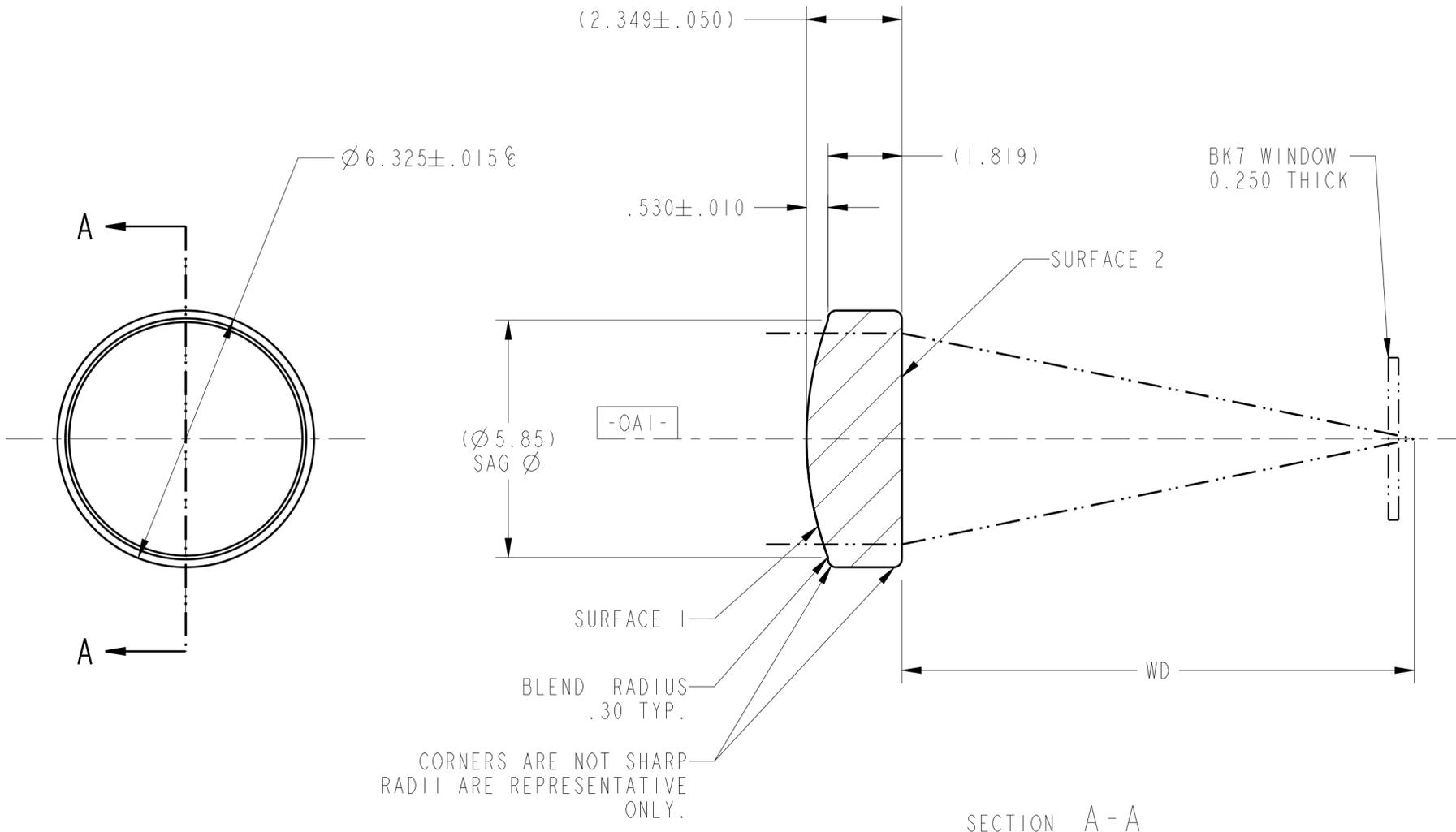
	SURFACE 1	SURFACE 2
TYPE	ASPHERE	PLANO
SHAPE	CX	PL
CA	∅5.20	∅5.20
R _C	8.181145	PLANO
K	-1.294331	0.000000
A ₂	0.000000E0	0.000000E0
A ₄	1.628517E-4	0.000000E0
A ₆	3.319537E-8	0.000000E0
A ₈	4.288261E-10	0.000000E0
A ₁₀	-1.099969E-11	0.000000E0
A ₁₂	0.000000E0	0.000000E0
A ₁₄	0.000000E0	0.000000E0
A ₁₆	0.000000E0	0.000000E0

4. NOMINAL DESIGN PARAMETERS.

DESIGN WAVELENGTH	633 nm
W.D.	12.6 mm
N.A.	0.2
E.F.L.	14.0mm ± 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: @ 100% APERTURE < 0.050 WAVES RMS @ 632.8nm; @ 50% APERTURE < 0.250 WAVES P-V PER LIGHTPATH PWI INS-8.2-03.Ⓢ

REVISION HISTORY				
REV	DCO	DESCRIPTION	DATE	INITIALS
A	1962	INITIAL RELEASE	09/22/08	ASYMMONS
B	2384	BLEND RADIUS WAS 0.1	06/10/10	ASYMMONS
C	3737	<0.050 RMS WAS <.250 P-V	3/24/14	DS
D	4366	UPDATED FORMAT	12/08/15	PL



CORNERS ARE NOT SHARP
RADIi ARE REPRESENTATIVE
ONLY.

SECTION A-A

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MM.
DECIMAL TOLERANCES ARE:
.X ± 0.25
.XX ± 0.10
.XXX ± 0.025
.XXXX ± 0.013
ANGLES: ± 0.5°

LightPath
TECHNOLOGIES

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PROPRIETARY INFORMATION
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF LIGHTPATH TECHNOLOGIES
AND IS NOT TO BE DISCLOSED OR REPRODUCED IN WHOLE OR PART, OR USED FOR
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DRAWN
ASYMMONS/ORL

TITLE
LENS CODE 354059

MATERIAL
DZK3(m)

SIZE
A2

DWG NO
0354059

REV
D

SOFTWARE
Pro/ENGINEER

SCALE:
10.00

THIRD ANGLE PROJECTION



SHEET
1 OF 1



REV D
SH I
DWG NO 0354059