

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: Y= RADIAL DISTANCE FROM VERTEX IN mm

3. SURFACE DEFINITIONS:

	SURFACE 1	SURFACE 2
TYPE	ASPHERE	PLANO
SHAPE	CX	PL
CA	Ø 4.80	Ø 3.45
R _C	2.859452	PLANO
K	-1.035707	0.000000
A ₂	0.000000E0	0.000000E0
A ₄	2.745915E-3	0.000000E0
A ₆	3.916906E-5	0.000000E0
A ₈	-2.023965E-8	0.000000E0
A ₁₀	-1.867865E-7	0.000000E0
A ₁₂	0.000000E0	0.000000E0
A ₁₄	0.000000E0	0.000000E0
A ₁₆	0.000000E0	0.000000E0

4. NOMINAL DESIGN PARAMETERS:

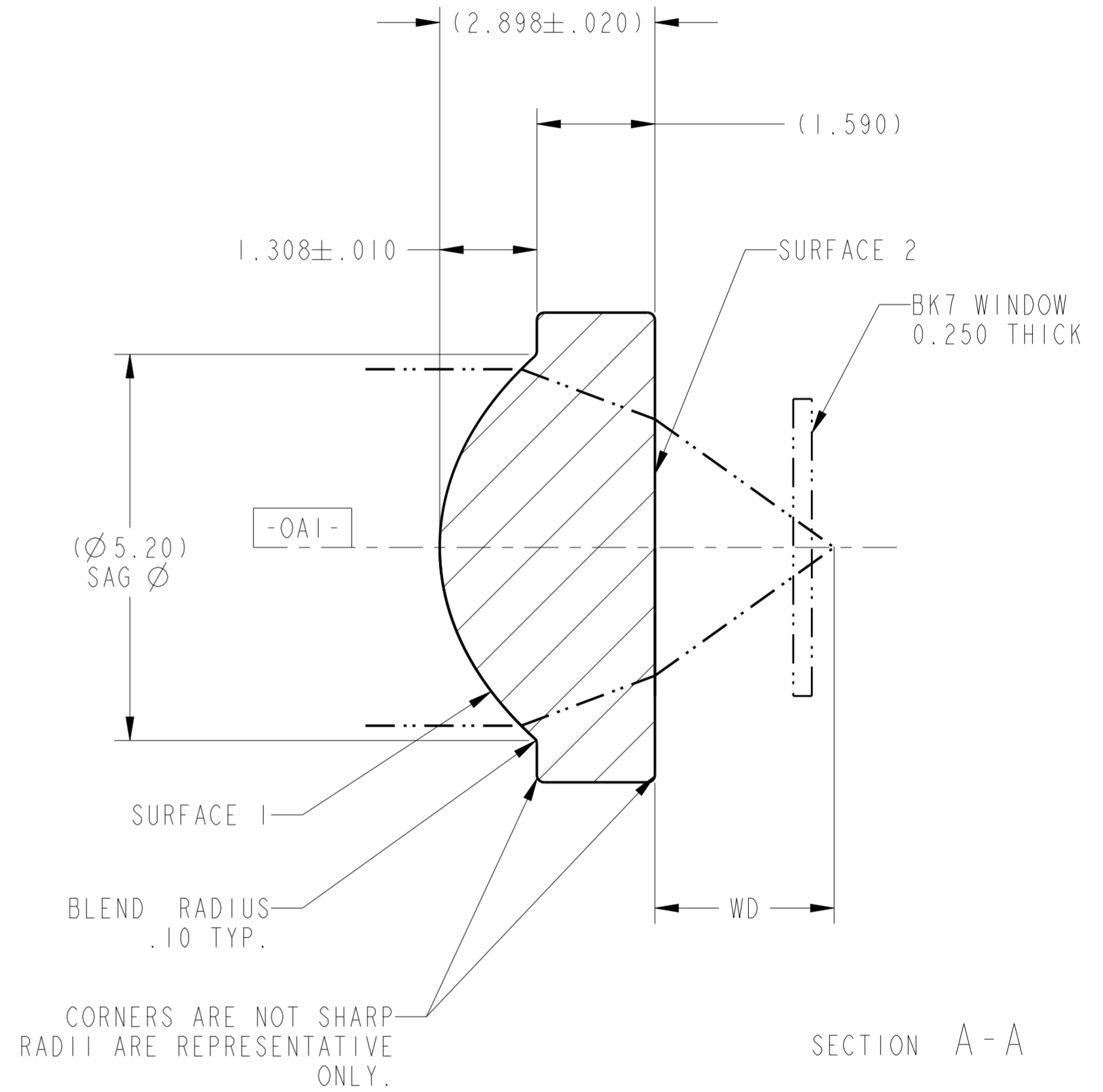
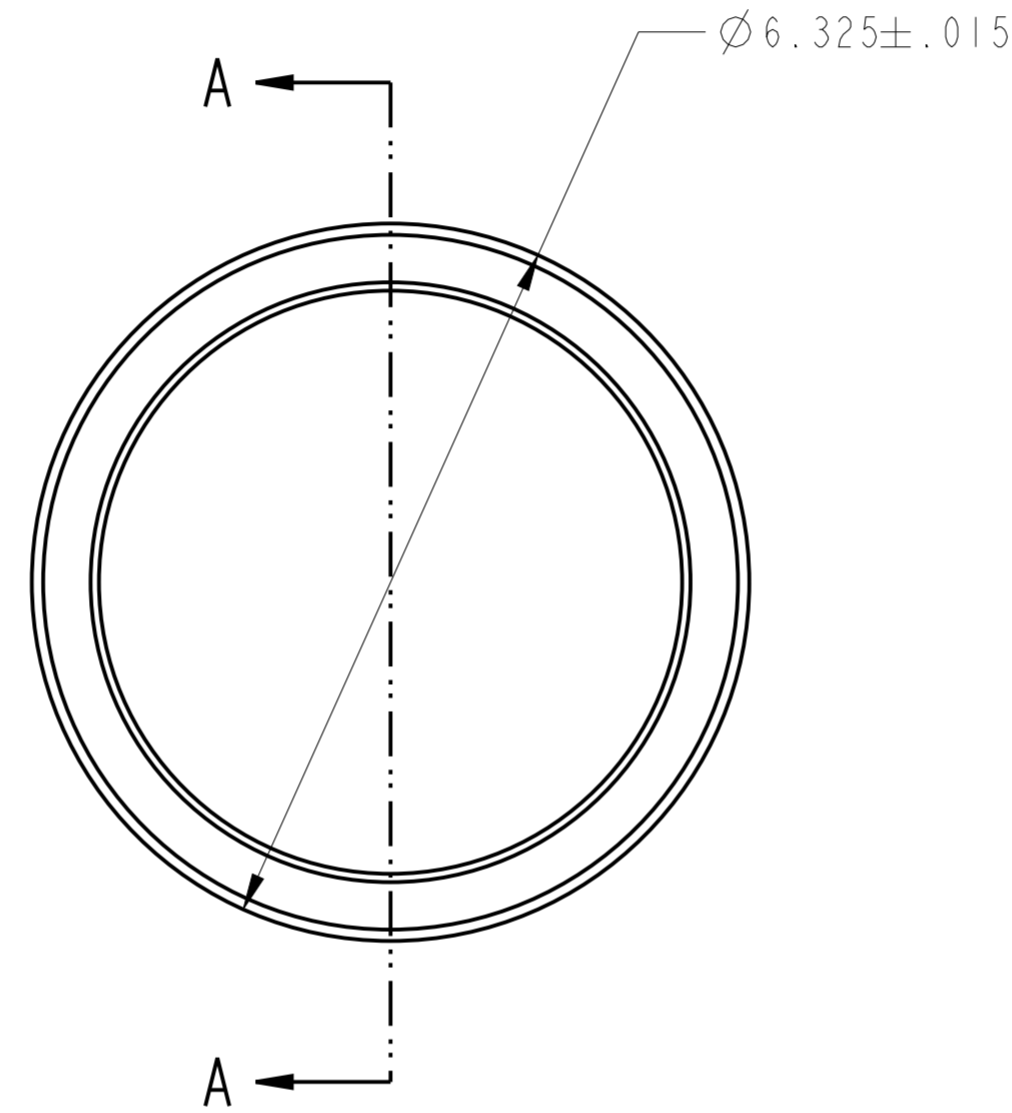
DESIGN WAVELENGTH	408 nm
W.D.	2.4 mm
N.A.	0.6
E.F.L.	4.0mm ± 1.0%

5. FEATURES IDENTIFIED AS C 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 SIDE, PER LIGHTPATH PWI INS-8.2-05P6. C
-00: S/D: 40/20

7. THIS ELEMENT IS USED AS A COLLIMATING LENS.
WAVEFRONT ERROR: @ 100% APERTURE < 0.15 WAVES RMS @ 632.8nm
@ 50% APERTURE < 0.2 WAVES P-V
COMA: < 0.75 WAVES
PER LIGHTPATH PWI INS-8.2-13. C
TRANSMITTED WAVEFRONT MEASUREMENT WITHOUT WINDOW.

REVISION HISTORY				
REV	DCO	DESCRIPTION	DATE	INITIALS
A	2225	INITIAL RELEASE	03/04/10	ASYMMONS
B	2480	NOTE 2, PREFORM WAS 0261957	09/20/10	ASYMMONS
C	3139	PREFORM P/N WAS 0261952.	5/23/12	JAL
D	4264	NEW CATALOG FORMAT	9/30/15	PL
E	4970	ADDED 50% APERTURE & COMA SPEC	05/11/17	PL



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 MANUFACTURING FOR ANYONE OTHER THAN LIGHTPATH TECHNOLOGIES WITHOUT ITS WRITTEN CONSENT. NO RIGHT IS GRANTED TO DISCLOSE OR USE ANY INFORMATION CONTAINED IN SAID DOCUMENT.

DRAWN
ASYMMONS\ORL

TITLE
LENS CODE 357775

MATERIAL
D-LAK6(m)

SIZE A2 DWG NO 0357775 REV E

SOFTWARE
Pro/ENGINEER

SCALE: 15.00 THIRD ANGLE PROJECTION SHEET 1 OF 1



DWG NO 0357775