

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:

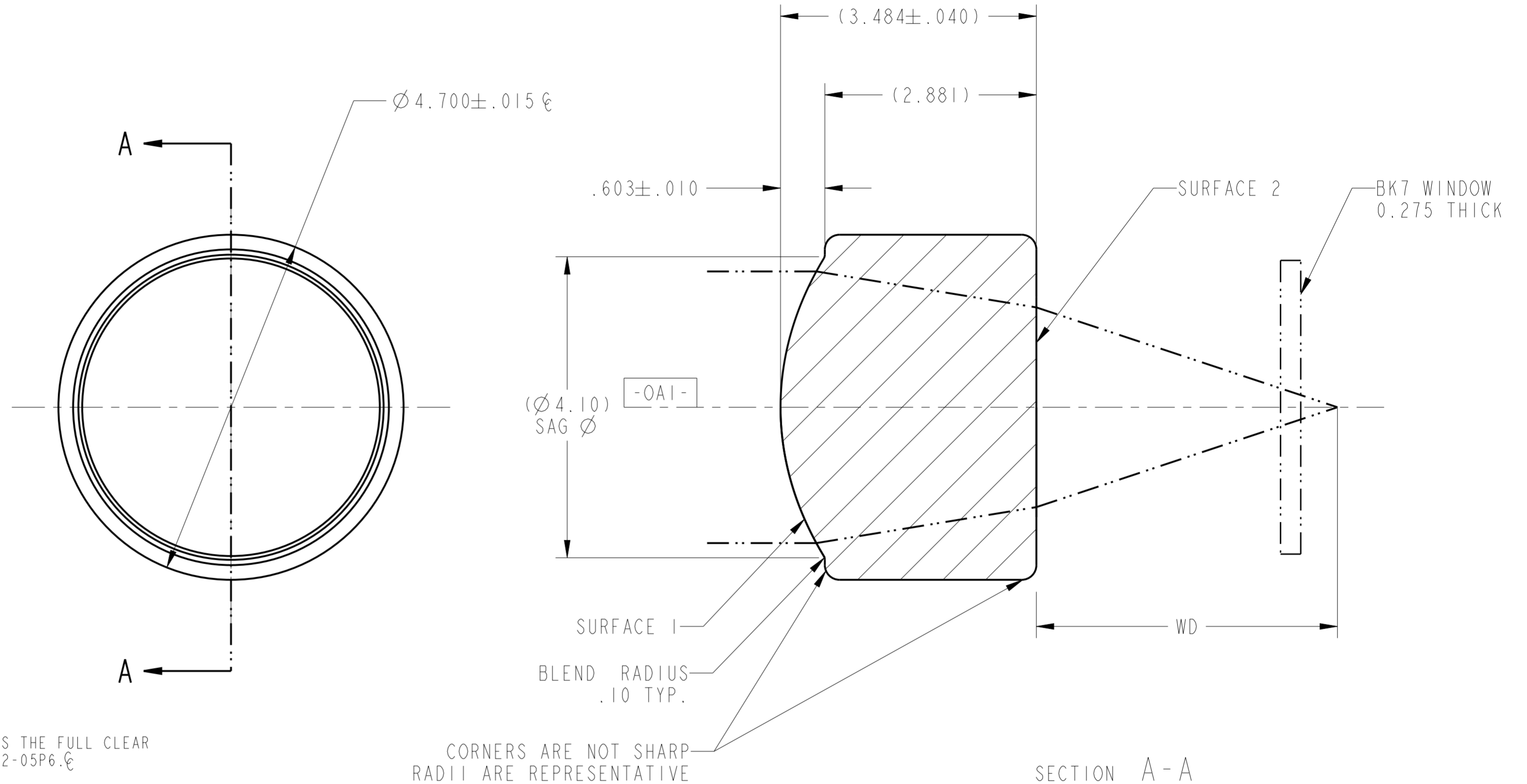
	SURFACE 1	SURFACE 2
TYPE	ASPHERE	PLANO
SHAPE	CX	PL
CA	Ø3.70	Ø2.72
R <sub>C</sub>	3.623129	PLANO
K	-1.420775	0.000000
A <sub>2</sub>	0.000000E0	0.000000E0
A <sub>4</sub>	2.353460E-3	0.000000E0
A <sub>6</sub>	-8.438695E-7	0.000000E0
A <sub>8</sub>	5.362336E-7	0.000000E0
A <sub>10</sub>	-7.978766E-9	0.000000E0
A <sub>12</sub>	0.000000E0	0.000000E0
A <sub>14</sub>	0.000000E0	0.000000E0
A <sub>16</sub>	0.000000E0	0.000000E0

4. NOMINAL DESIGN PARAMETERS.

DESIGN WAVELENGTH	633 nm
W.D.	4.1 mm
N.A.	0.3
E.F.L.	6.2mm ± 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: 80/50
7. THIS ELEMENT IS USED AS A COLLIMATING LENS.  
WAVEFRONT ERROR: @ 100% APERTURE < 0.087 WAVES RMS @ 632.8nm;  
@ 50% APERTURE < 0.270 WAVES P-V  
PER LIGHTPATH PWI INS-8.2-03.Ⓢ

REVISION HISTORY				
REV	ECN	DESCRIPTION	DATE	INITIALS
A	1959	INITIAL RELEASE	09/22/08	ASYMMONS
B	2364	SPEC. WAS 9000155.	04/27/10	ASYMMONS
C	4369	UPDATED FORMAT	12/09/15	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°

DRAWN  
ASYMMONS/ORL

MATERIAL  
D-ZK3(m)

SOFTWARE  
Pro/ENGINEER

**LightPath**  
TECHNOLOGIES  
2603 CHALLENGER TECH CT., SUITE 100  
ORLANDO, FL 32826

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.

TITLE  
LENS CODE 354171

SIZE  
A2

DWG NO  
0354171

REV  
C

SCALE: 20.00

THIRD ANGLE PROJECTION

SHEET 1 OF 1

