

NOTES: UNLESS OTHERWISE SPECIFIED

- [-OAI-] IS THE THEORETICAL OPTIC AXIS OF THE FIRST OPTIC SURFACE.
- 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	∅5.00	∅2.93
R _C	4.948365	PLANO
K	-1.116618	0.0
A ₂	0.0	0.0
A ₄	6.004451E-4	0.0
A ₆	1.364160E-6	0.0
A ₈	-6.907517E-8	0.0
A ₁₀	0.0	0.0
A ₁₂	0.0	0.0
A ₁₄	0.0	0.0
A ₁₆	0.0	0.0

4. NOMINAL DESIGN PARAMETERS:

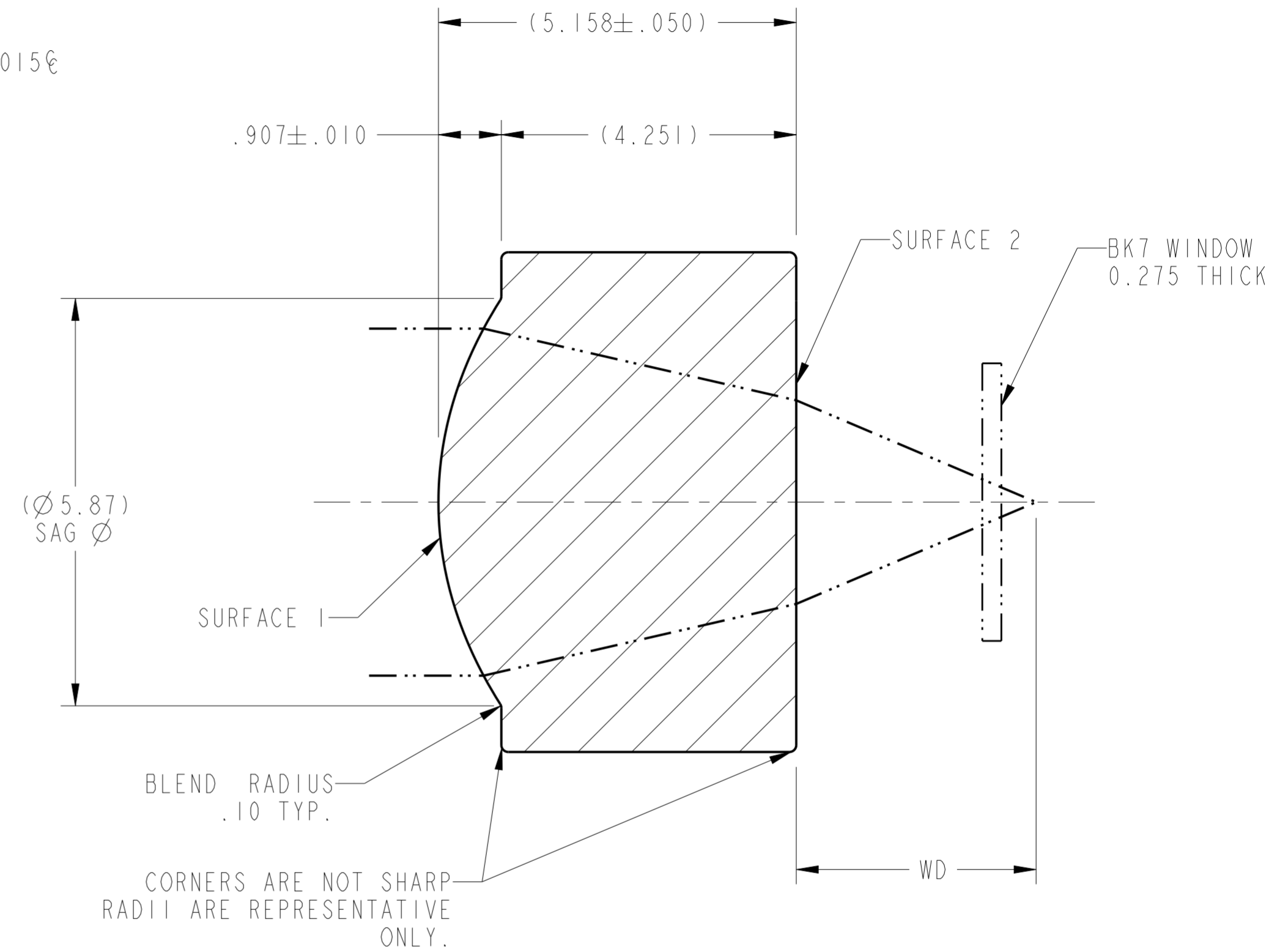
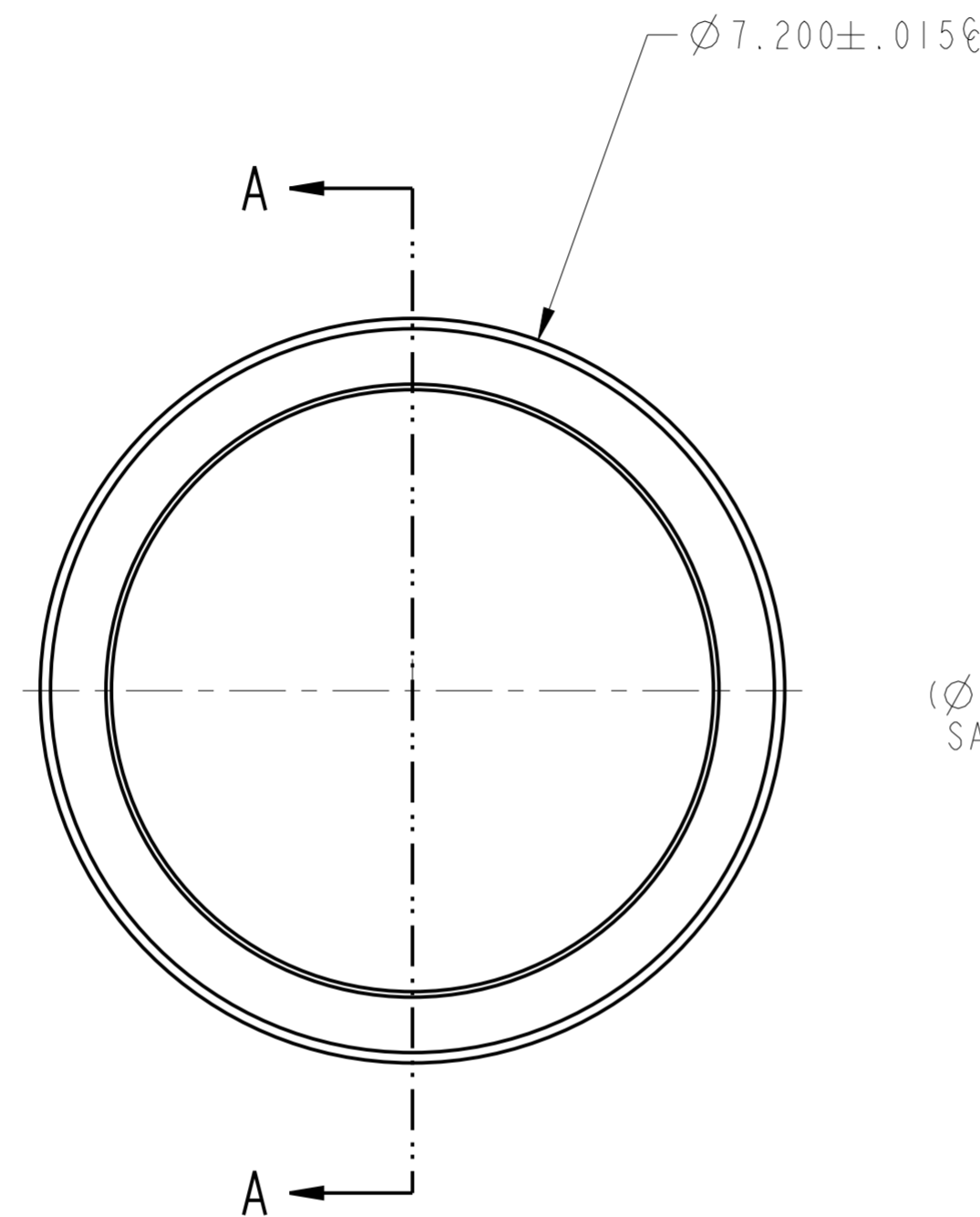
DESIGN WAVELENGTH	780nm
W.D.	3.5mm
N.A.	0.4
E.F.L.	6.2±1.0%

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: 40/20.

7. THIS ELEMENT IS USED AS A COLLIMATING LENS.
WAVEFRONT ERROR: < 0.07 WAVES RMS @ 632.8nm
@50% APERTURE < 0.27 WAVES P-V @ 632.8nm
PER LIGHTPATH PWI INS-8.2-03. Ⓢ

REVISION HISTORY				
REV	ECN	DESCRIPTION	DATE	INITIALS
A	2486	INITIAL RELEASE	09/23/10	AS
B	2908	PREFORM WAS 0282786.	9/7/2011	JAL
C	4237	UPDATE DRAWING FORMAT	8/10/15	EF
D	5042	UPDATED NOTE 7	08/02/17	GB



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

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.

DRAWN
AS\ORL

TITLE

LENS CODE 355110

MATERIAL
D-ZLAF52LA(m)

SIZE

A2

DWG NO

0355110

REV

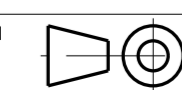
D

SOFTWARE
Pro/ENGINEER

SCALE:

20.00

THIRD ANGLE PROJECTION



SHEET

1 OF 1



REV D
SH I
DWG NO 0355110