

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:

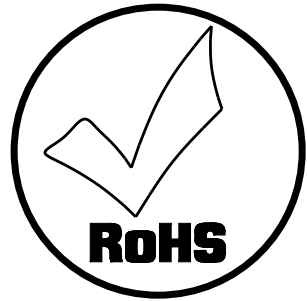
	SURFACE 1	SURFACE 2
TYPE	ASPHERE	PLANO
SHAPE	CX	PL
CA	Ø 4.00	Ø 2.50
R _C	3.003832	PLANO
K	-0.062019	0.000000
A ₂	0.000000E0	0.000000E0
A ₄	-4.027423E-3	0.000000E0
A ₆	-8.500783E-4	0.000000E0
A ₈	4.509876E-6	0.000000E0
A ₁₀	0.000000E0	0.000000E0
A ₁₂	0.000000E0	0.000000E0
A ₁₄	0.000000E0	0.000000E0
A ₁₆	0.000000E0	0.000000E0

4. NOMINAL DESIGN PAMETERS:

DESIGN WAVELENGTH	9500 nm
W.D.	0.72 mm
N.A.	0.85
E.F.L.	1.9mm

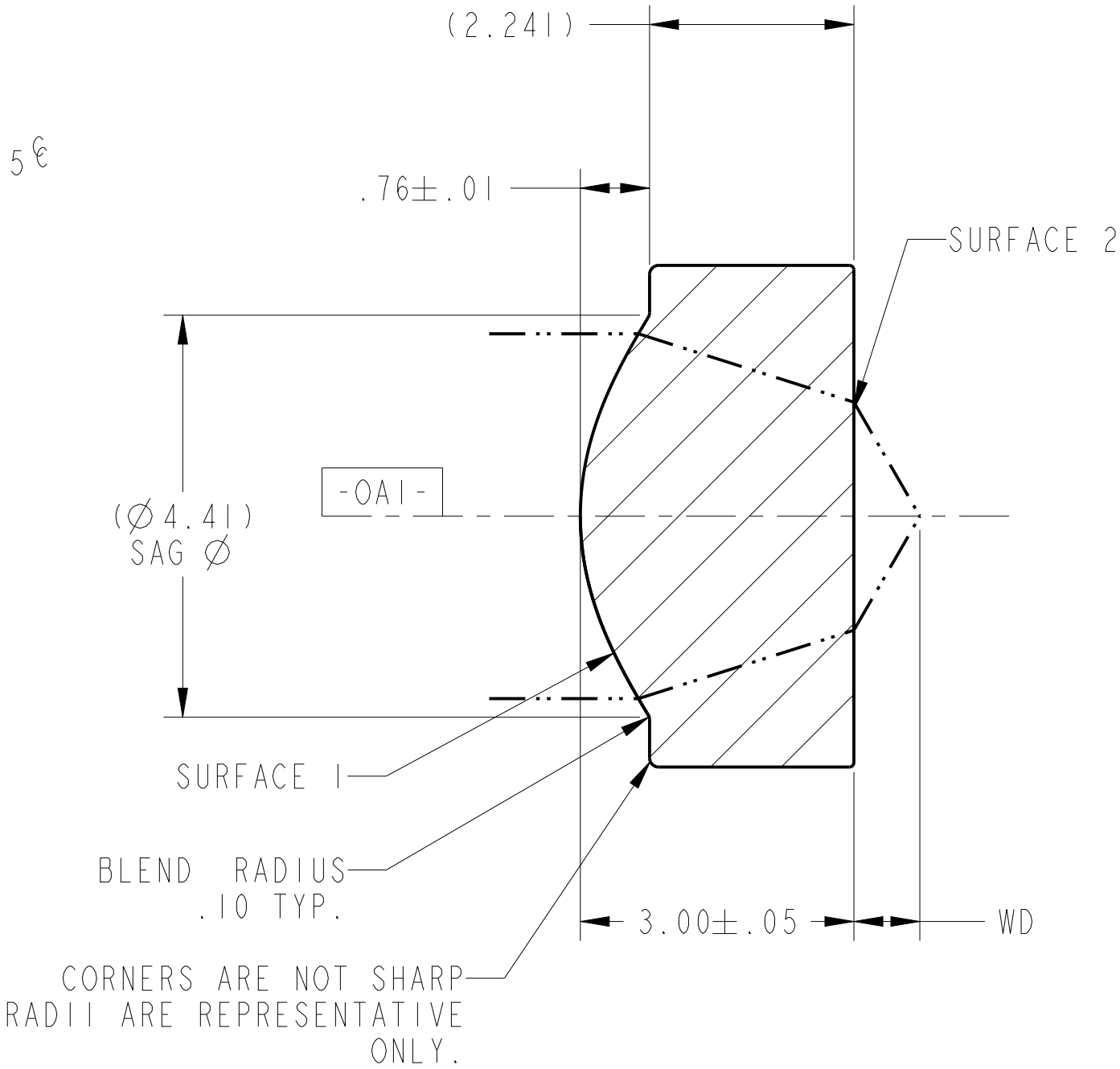
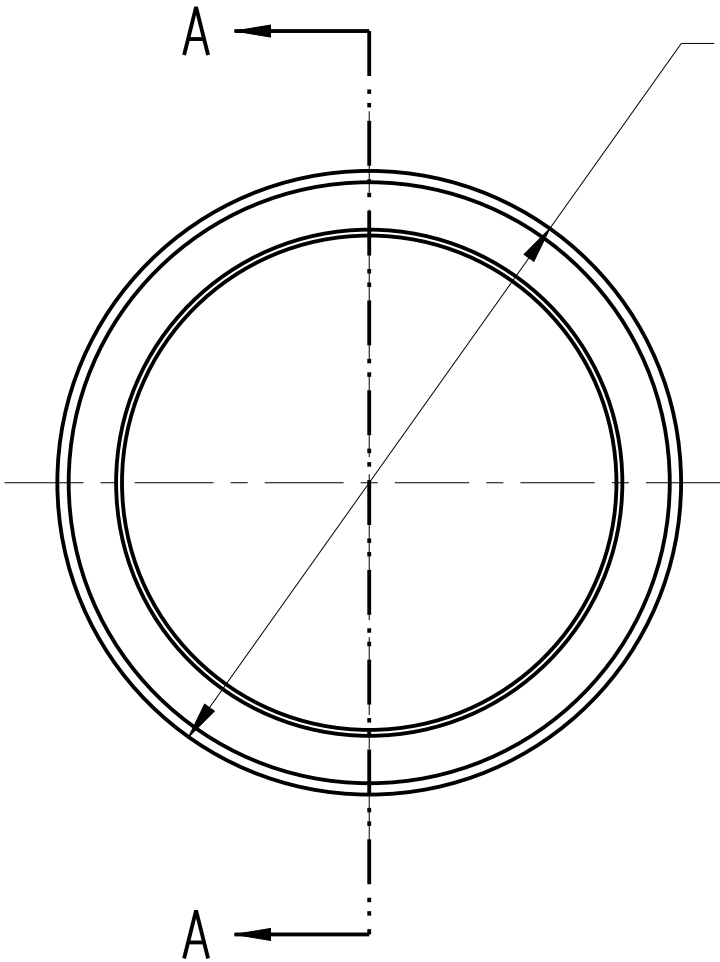
5. FEATURES IDENTIFIED AS Ⓢ ARE CRITICAL CHARACTERISTICS. CRITICAL CHARACTERISTICS ARE GUARANTEED IN PRODUCTION.
6. THIS ELEMENT MUST MEET THE SCRATCH/DIG REQUIREMENTS ACROSS THE FULL CLEAR APERTURES INDICATED, BOTH SIDES, PER LIGHTPATH PWI INS-8.2-05P6.Ⓢ
-00: S/D: 80/50, DEFECTS <10 MICRONS ARE IGNORED.

7 SET BY TOLERANCES OF PRESS TOOLING. SPECIFICATION NOT MEASURED DIRECTLY.




	RADIUS ERROR	IRREGULARITY	CENTRATION TO OD 7	TILT TO OD 7
S1	±0.004 mm	< 316.5 nm PV < 105.5 nm RMS	< 0.007 mm	< 0.6 mrad
S2	N/A			

REVISION HISTORY				
REV	DCO	DESCRIPTION	DATE	INITIALS
A	1794	INITIAL RELEASE	1/9/08	ES
B	2610	CONVERSION FROM SW TO PRO/E	12/20/10	ES
C	6062	UPDATED FORMAT	12/31/19	YK
D	6496	NOTE 6 UPDATED, NOTE 7 ADDED,	4/13/21	YK
		TABLE UPDATED		



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°		<div>LightPath</div> <div>TECHNOLOGIES</div> <div>2603 CHALLENGER TECH CT. SUITE 100 ORLANDO, FL 32826</div>		<div>PROPRIETARY INFORMATION</div> <div>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.</div>	
DRAWN ES\ORL		TITLE <div>LENS CODE 390037</div>			
MATERIAL BD2 (m)		SIZE A2	DWG NO 0390037		REV D
SOFTWARE Pro/ENGINEER		SCALE: 15.00	THIRD ANGLE PROJECTION 		SHEET 1 OF 1