

8			7		6		5			4		
RADIUS			RADIUS ERROR	ROUGHNESS	IRREGULARITY	CA	CT	WD	NA	DESIGN WAVELENGTH	EFL	WAVEFRONT
S1	ASPHERE	CX	± 0.011 mm	<20nm RMS	<329.0nm P-V <109.7nm RMS	Ø 1.40	1.400±0.030	1.36	0.33	1310	2.15±1.0%	< 0.070 WAVE RMS @ 632.8 nm
S2	PLANO	PL	N/A	<20nm RMS	<329.0nm P-V <109.7nm RMS	Ø 0.94						

3		2		1	
REVISION HISTORY					
REV	DCO	DESCRIPTION	DATE	INITIALS	
A	4874	INITIAL RELEASE	2/14/17	CL	
B	5079	CHANGE TO THE MIP HOUSING	9/8/17	CL	
C	5251	CORRECTED MIP MATERIAL	2/12/18	CL	
D	5305	ADD OPERATING TEMPERATURE	03/22/18	MW	

NOTES: UNLESS OTHERWISE SPECIFIED

- I. $-OAI-$ IS THE THEORETICAL OPTIC AXIS OF THE FIRST OPTIC SURFACE.

2. MATERIAL: D-ZLAF52LA
HOLDER MATERIAL: SF20F

3. ASPHERIC SURFACES ARE DEFINED BY:

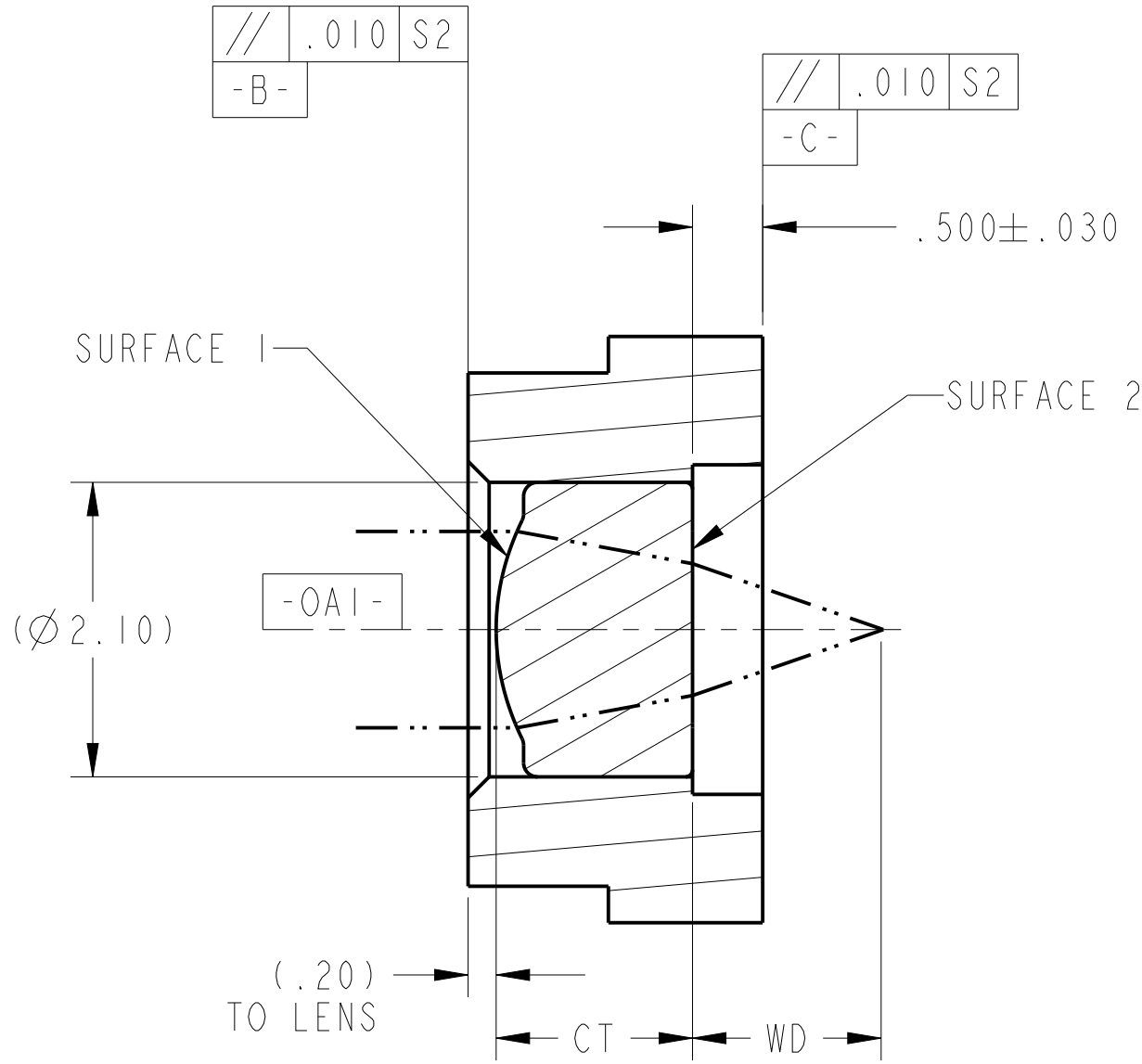
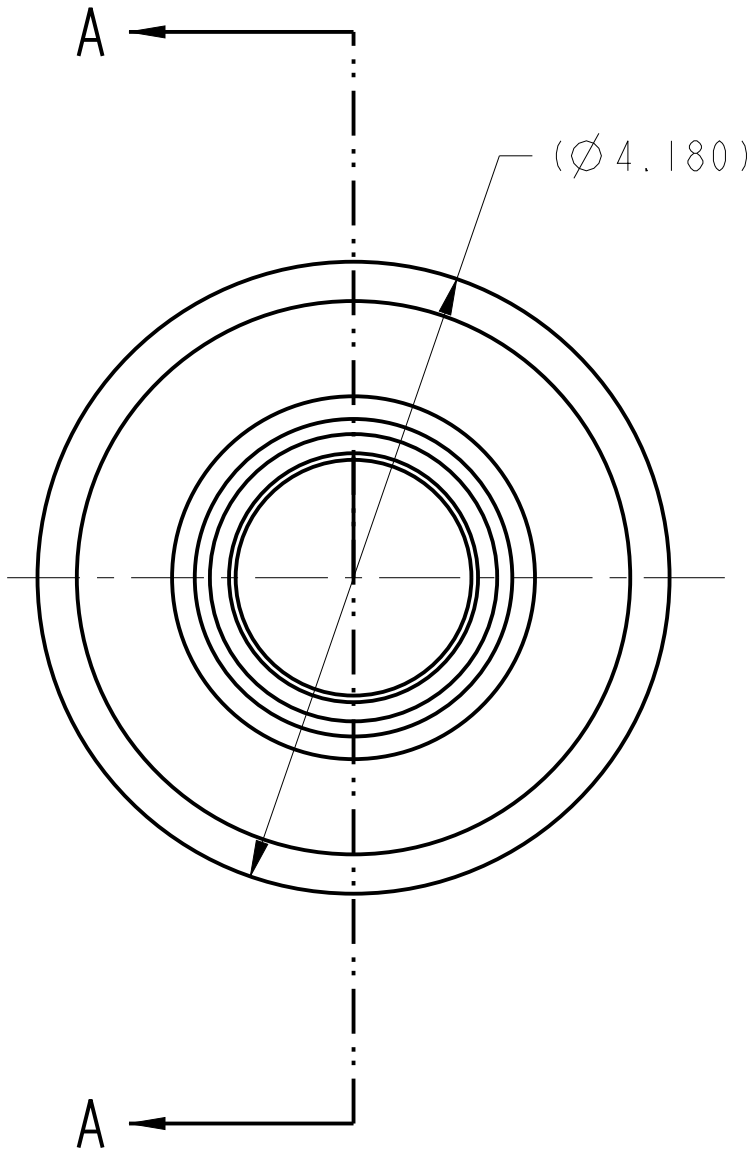
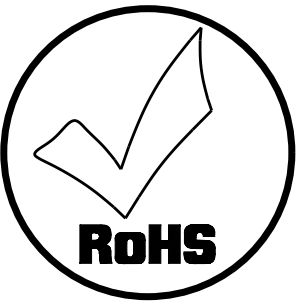
$$Z(Y) = \frac{Y^2}{R * (1 + [1 - (1 + K) * Y^2 / R^2]^{0.5})} + A_2 * Y^2 + A_4 * Y^4 + A_6 * Y^6 + A_8 * Y^8 + A_{10} * Y^{10} + A_{12} * Y^{12} + A_{14} * Y^{14} + A_{16} * Y^{16}$$

WHERE: Y= RADIAL DISTANCE FROM VERTEX IN mm

- #### 4. SURFACE DEFINITIONS:

	SURFACE 1	SURFACE 2
RADIUS	1.675440	PLANO
K	-1.000000	0.000000
A ₂	0.000000E0	0.000000E0
A ₄	1.118024E-2	0.000000E0
A ₆	1.113527E-4	0.000000E0
A ₈	-1.260638E-4	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

5. THIS ELEMENT MUST MEET THE SCRATCH/DIG REQUIREMENTS ACROSS THE FULL CLEAR APERTURES INDICATED, BOTH SIDES, PER MIL-PRF-13830B AS PROVIDED IN LIGHTPATH SPECIFICATION: 9000853.
6. THIS ELEMENT IS USED AS A COLLIMATING LENS. TEST METHODS AND FREQUENCIES ARE DEFINED AS PROVIDED IN LIGHTPATH SPECIFICATION: 9000853.
7. OPERATING TEMPERATURE RANGE: -20 TO 90°C.



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 DS\ORL		TITLE LENS CODE 355290			
MATERIAL N/A		SIZE A2	DWG NO 0355290		REV D
SOFTWARE Pro/ENGINEER		SCALE: 20.00	THIRD ANGLE PROJECTION 		SHEET 1 OF 1