

8			7		6		5			4		
RADIUS			RADIUS ERROR	ROUGHNESS	IRREGULARITY	CA	CT	WD	NA	DESIGN WAVELENGTH	EFL	WAVEFRONT
S1	ASPHERE	CX	± 0.003 mm	<10nm RMS	<316.5nm P-V <105.5nm RMS	∅ 7.00	4.000±0.020	4.55	0.52	633	6.75±1.0%	< 0.087 WAVE(S1) @ 632.8nm
S2	ASPHERE	CX	± 0.225 mm	<10nm RMS	<316.5nm P-V <105.5nm RMS	∅ 5.51						

3		2		1	
REVISION HISTORY					
REV	DCO	DESCRIPTION		DATE	INITIALS
C	3202	RE-RELEASE		08/13/12	JAL

NOTES: UNLESS OTHERWISE SPECIFIED

1. **-OA1-** IS THE THEORETICAL OPTIC AXIS OF THE FIRST OPTIC SURFACE.
2. **-OA2-** IS THE THEORETICAL OPTIC AXIS OF THE SECOND OPTIC SURFACE.
3. MATERIAL: ECO550, PREFORM PART NUMBER: 0302786.
4. ASPHERIC SURFACES ARE DEFINED BY:

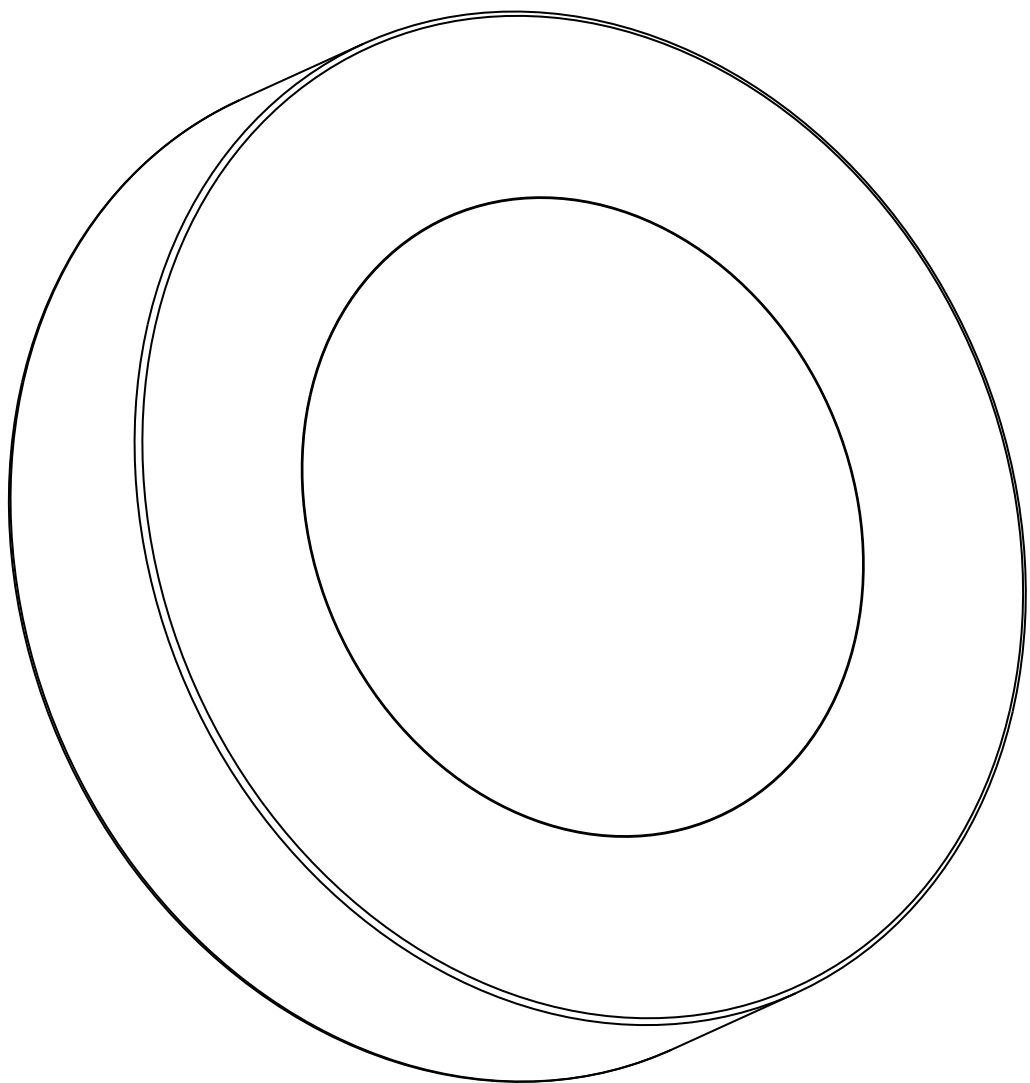
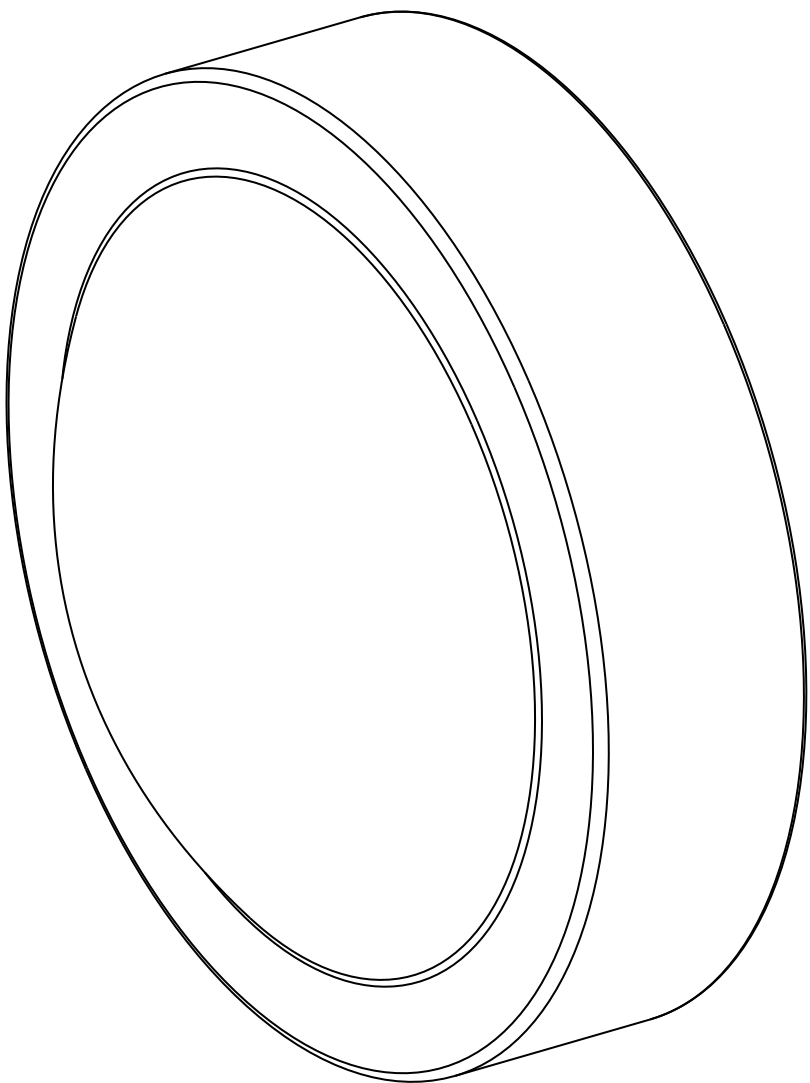
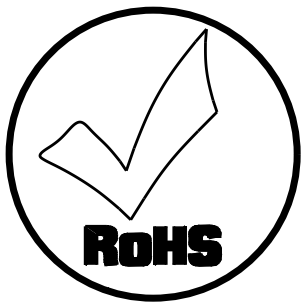
$$Z(Y) = \frac{Y^2}{R * (1 + [1 - (1 + K) * Y^2 / R^2]^{0.5})} + A_2 * Y^2 + A_4 * Y^4 + A_6 * Y^6 + A_8 * Y^8 + A_{10} * Y^{10} + A_{12} * Y^{12} + A_{14} * Y^{14} + A_{16} * Y^{16}$$

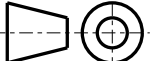
WHERE: Y= RADIAL DISTANCE FROM VERTEX IN mm

- ## 5. SURFACE DEFINITIONS:

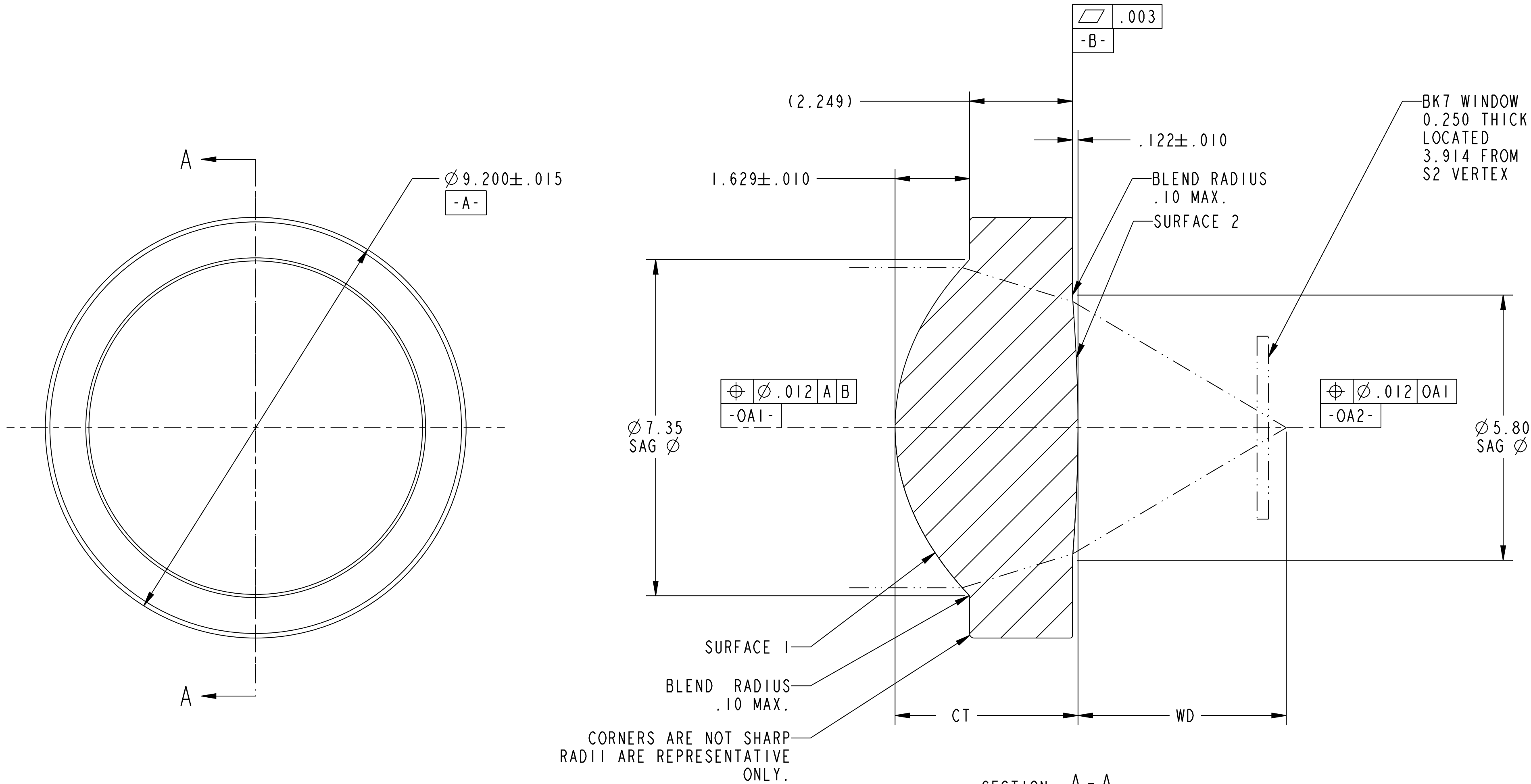
	SURFACE 1	SURFACE 2
RADIUS	4.429668	-30.000000
K	-1.337456	0.000000
A ₂	0.000000E0	0.000000E0
A ₄	1.042139E-3	2.863593E-4
A ₆	-2.366579E-6	-3.039673E-6
A ₈	0.000000E0	0.000000E0
A ₁₀	0.000000E0	0.000000E0
A ₁₂	0.000000E0	0.000000E0
A ₁₄	0.000000E0	0.000000E0
A ₁₆	0.000000E0	0.000000E0

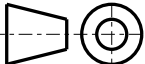
6. THIS ELEMENT MUST MEET THE SCRATCH/DIG REQUIREMENTS ACROSS THE FULL CLEAR APERTURES INDICATED, BOTH SIDES, PER MIL-PRF-13830B AS PROVIDED IN LIGHTPATH SPECIFICATION: 9000414.
7. THIS ELEMENT IS USED AS A COLLIMATING LENS. TEST METHODS AND FREQUENCIES ARE DEFINED AS PROVIDED IN LIGHTPATH SPECIFICATION: 9000414.



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.	
	TITLE LENS CODE 352115				
DRAWN INEWCOMB\ORL	SIZE	DWG NO	REV		
MATERIAL SEE NOTES	A2	0352115	C		
SOFTWARE Pro/ENGINEER	SCALE:	15.00	THIRD ANGLE PROJECTION		SHEET 1 OF 2

REVISION HISTORY				
REV	DCO	DESCRIPTION	DATE	INITIALS
SEE SHEET 1				



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TITLE					
LENS CODE 352115					
SIZE	DWG NO				REV
A2	0352115				C
SCALE:		THIRD ANGLE PROJECTION		SHEET	
15.00				2 OF 2	