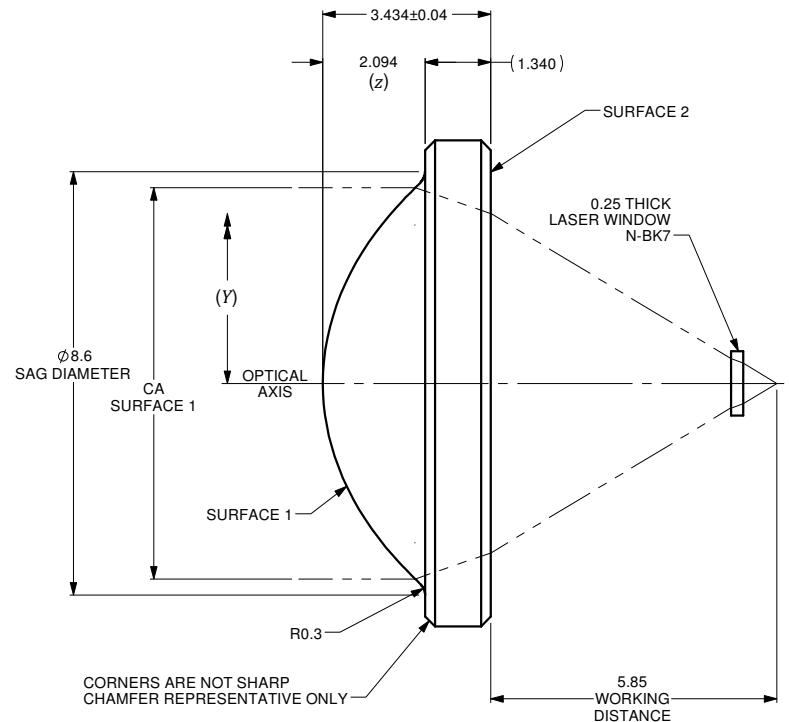
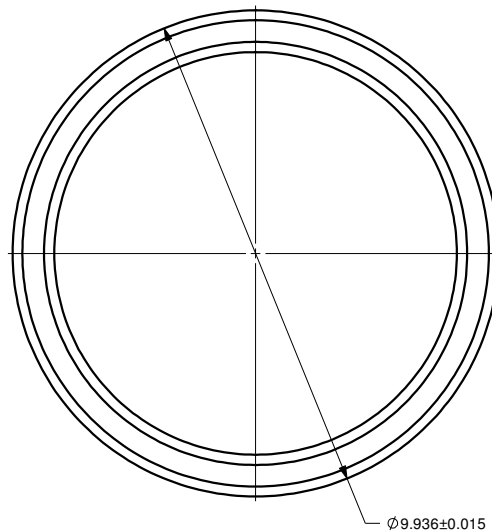


$$z = \frac{Y^2}{R \left(1 + \sqrt{1 - (1+k) \frac{Y^2}{R^2}} \right)} + A_4 Y^4 + A_6 Y^6 + \dots + A_n Y^n$$

	SURFACE 1	SURFACE 2
SURFACE TYPE	ASPHERIC	PLANO
CLEAR APERTURE (CA)	ø8.00mm	ø6.94mm MIN.
RADIUS OF CURVATURE	4.63478mm	INF.
<i>k</i>	-0.92308	0
<i>A</i> ₄	4.77359E-004	0
<i>A</i> ₆	4.00285E-006	0
<i>A</i> ₈	3.57382E-008	0
<i>A</i> ₁₀	-7.56948E-010	0
<i>A</i> ₁₂	0	0
<i>A</i> ₁₄	0	0



VARIABLES	
<i>z</i>	SURFACE PROFILE
<i>Y</i>	DISTANCE FROM OPTICAL AXIS
<i>R</i>	RADIUS OF CURVATURE
<i>k</i>	CONIC CONSTANT
<i>A</i> ₄	4th ORDER ASPHERIC COEFFICIENT
<i>A</i> ₆	6th ORDER ASPHERIC COEFFICIENT
<i>A</i> _{<i>n</i>}	<i>n</i> th ORDER ASPHERIC COEFFICIENT

NUMERICAL APERTURE	0.5
EFFECTIVE FOCAL LENGTH	7.9mm

NOTES :

- MATERIAL: D-ZK3
- WAVEFRONT ABERRATION (RMS): <0.08λ @ 632.8nm
- AR COATING: 375-650 nm
REFLECTIVITY R_{avg} ≤0.50%

ALL DIMENSIONS ARE IN MILLIMETERS		A		N/A		ORIGINAL ISSUE		C.M.		27-SEP-2019	
DRAWN BY:	P. SUMMERS	DATE:	9/27/2019	REV.	ECR REF#	DESCRIPTION		ENG. BY	DATE		
CHECKED BY:		DATE:		UNLESS NOTED OTHERWISE, DIMENSIONS ARE IN MILLIMETERS. INCHES ARE IN SQUARE BRACKETS AND TOLERANCES APPLY AS SHOWN BELOW.							
M/S CHECKED BY:		DATE:		INCHES							
AP/VD BY:		DATE:		BASIC DIMENSION				DECIMAL PLACES			
PROJECTION:				X		XX		X		XX	
				BELOW 4		±.01		±.005		±.001	
				OVER 4		±.02		±.01		±.005	
				MILLIMETERS							
				BASIC DIMENSION		X		XX		DESC:	
				BELOW 10.0		±.25		±.15		ASPHERIC LENS	
				OVER 101.6		±.50		±.20		f=8mm, OD=9.94mm. AR COATED FOR 375-650nm	
				ANGULAR DIMENSIONS							
				BASIC DIMENSION		X		XX		PART NO.	
				ALL ANGLES		±2.5°		±0.3°		AS-F8-D9.94-375/650	
				SURFACE FINISH		MILLED		PROFLED:		SIZE: B	
						125μ		63μ		DWG.# 4000-0225	
										SHEET 1 OF 1	
										SCALE: 10:1	
										REV A	

