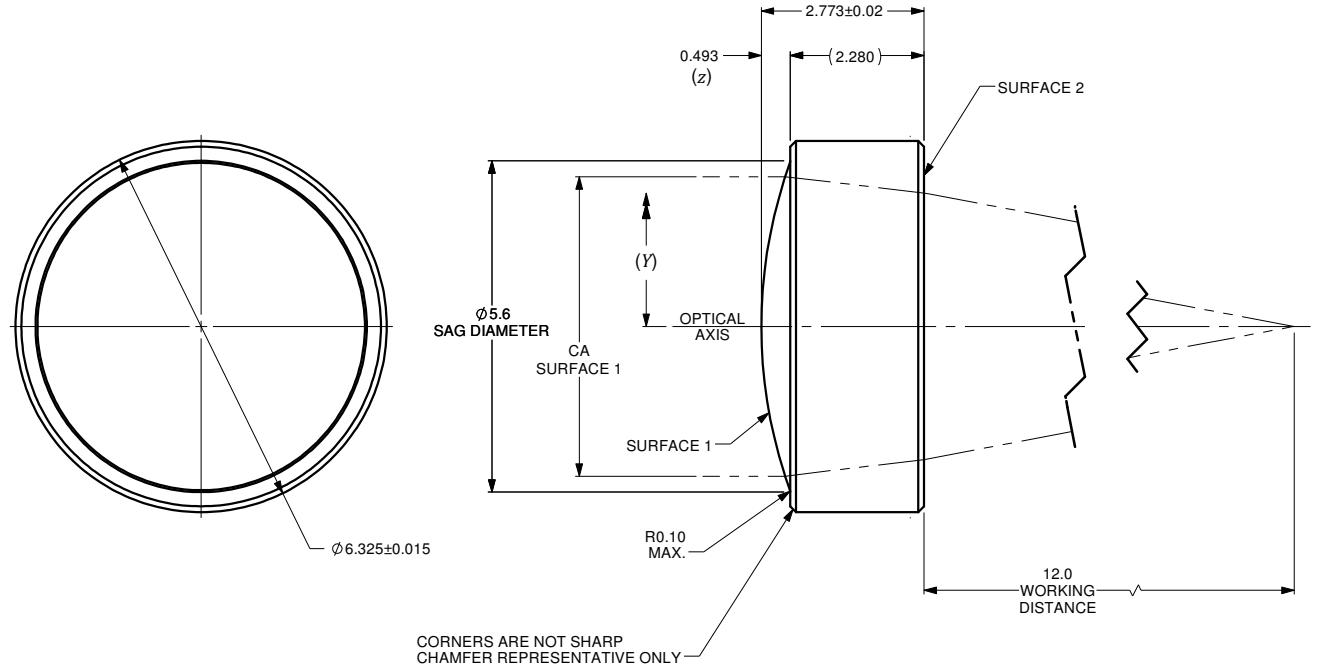


$$z = \frac{Y^2}{R \left(1 + \sqrt{1 - (1+k) \frac{Y^2}{R^2}} \right)} + A_4 Y^4 + A_6 Y^6 + \dots + A_n Y^n$$

	SURFACE 1	SURFACE 2
SURFACE TYPE	ASPHERIC	PLANO
CLEAR APERTURE (CA)	ø5.10mm	ø4.55mm MIN.
RADIUS OF CURVATURE	8.08262mm	INF.
<i>k</i>	-1.34235	0.0
<i>A</i> ₄	1.81052E-004	0.0
<i>A</i> ₆	-1.60892E-008	0.0
<i>A</i> ₈	6.82628E-010	0.0
<i>A</i> ₁₀	0.0	0.0
<i>A</i> ₁₂	0.0	0.0
<i>A</i> ₁₄	0.0	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	0.18
EFFECTIVE FOCAL LENGTH	13.8mm

NOTES :

- MATERIAL: D-ZK3
- WAVEFRONT ABERRATION (RMS): <0.05λ @ 632.8nm
- AR COATING: 375-650 nm
REFLECTIVITY R <1.00%

A		N/A		ORIGINAL ISSUE		C.M.		17-SEP-2019	
REV.	ECR REF#	DESCRIPTION				ENG. BY	DATE		
DRAWN BY: P. SUMMERS		DATE: 9/17/2019		UNLESS NOTED OTHERWISE, DIMENSIONS ARE IN MILLIMETERS, INCHES ARE IN SQUARE BRACKETS, AND TOLERANCES APPLY AS SHOWN BELOW.					
CHECKED BY:		DATE:		INCHES					
M/S CHECKED BY:		DATE:		BASIC DIMENSION: X, XX, XXX, XXXX					
AP/VD BY:		DATE:		DECIMAL PLACES: .01, .001, .0001					
PROJECTION:		DATE:		MILLIMETERS					
THIS PRINT IS THE EXCLUSIVE PROPERTY OF OZ OPTICS AND MUST BE RETURNED UPON REQUEST. UNAUTHORIZED USE, MANUFACTURE OR REPRODUCTION IN WHOLE OR IN PART IS PROHIBITED.		DATE:		BASIC DIMENSION: X, XX, XXX, XXXX					
CONFIDENTIAL		DATE:		DECIMAL PLACES: .01, .001, .0001					
ALL ANGLES: 12.5°, 10.0°		DATE:		ANGULAR DIMENSIONS					
SURFACE FINISH: 125μ		DATE:		BASIC DIMENSION: X, XX, XXX, XXXX					
PROFILED: 63μ		DATE:		DECIMAL PLACES: .01, .001, .0001					
SIZE: B		DATE:		DESC: ASPHERIC LENS					
DWG.#: 4000-0231		DATE:		f=13.9mm, OD=6.325mm. AR COATED FOR 375-650nm					
SHEET 1 OF 1		DATE:		PART NO.: AS-F13.9-D6.3-375/650					
SCALE: 12:1		DATE:		REV: A					

