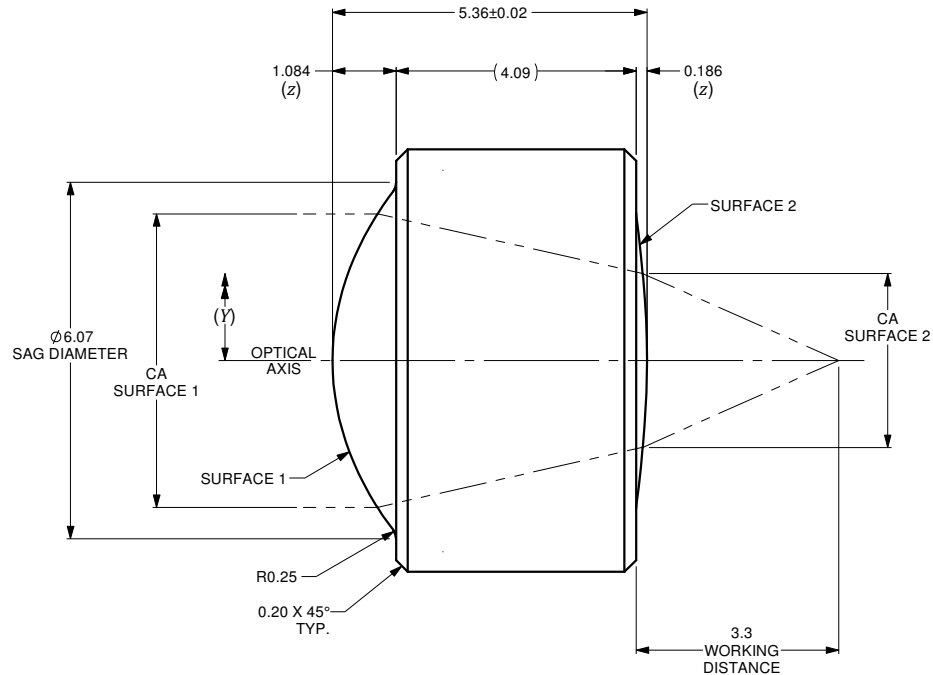
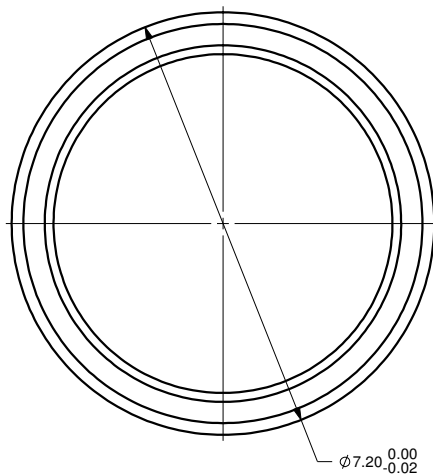


$$z = \frac{Y^2}{R \left(1 + \sqrt{1 - (1+k) \frac{Y^2}{R^2}} \right)} + A_4 Y^4 + A_6 Y^6 + \dots + A_n Y^n$$

	SURFACE 1	SURFACE 2
SURFACE TYPE	ASPHERIC	ASPHERIC
CLEAR APERTURE (CA)	ø5.0mm	ø3.0mm
RADIUS OF CURVATURE	4.237131mm	-13.1827
k	-1	0
A ₄	7.25389E-004	2.65034E-003
A ₆	3.84055E-006	-3.23871E-004
A ₈	-2.26349E-007	1.88232E-005
A ₁₀	-2.41526E-008	0
A ₁₂	0	0
A ₁₄	0	0

VARIABLES	
z	SURFACE PROFILE
Y	DISTANCE FROM OPTICAL AXIS
R	RADIUS OF CURVATURE
k	CONIC CONSTANT
A ₄	4th ORDER ASPHERIC COEFFICIENT
A ₆	6th ORDER ASPHERIC COEFFICIENT
A _n	nth ORDER ASPHERIC COEFFICIENT



NUMERICAL APERTURE	0.4
EFFECTIVE FOCAL LENGTH	6.2mm

NOTES :

- MATERIAL: D-ZK3
- WAVEFRONT ABERRATION (RMS): <0.05λ @ 632.8nm
- AR COATING: 375-650 nm
REFLECTIVITY R_{avg} ≤0.50%

A		N/A		ORIGINAL ISSUE		C.M.		17-SEP-2019	
REV.	ECR REF#	DESCRIPTION		ENG. BY	DATE	PART BARCODE #		553	
<p>ALL DIMENSIONS ARE IN MILLIMETERS</p> <p>UNLESS NOTED OTHERWISE, DIMENSIONS ARE IN MILLIMETERS, INCHES ARE IN SQUARE BRACKETS, AND TOLERANCES APPLY AS SHOWN BELOW.</p>									
DRAWN BY: P. SUMMERS		DATE: 9/17/2019		INCHES		DECIMAL PLACES		DESC: ASPHERIC LENS	
CHECKED BY:		DATE:		BASIC DIMENSION		X .XX		219 WESTBROOK ROAD	
M/S CHECKED BY:		DATE:		BELOW .4		1.01 ±.00%		OTTAWA, ONTARIO	
AP/VD BY:		DATE:		OVER .4		2.00 ±.01		CANADA K6A 1L0	
PROJECTION:		DATE:		MILLIMETERS		DECIMAL PLACES		www.ozoptics.com	
				BASIC DIMENSION		X .XX		PART NO. ASPHERIC LENS	
				BELOW 101.6		1.25 ±.10		f=6.2mm, OD=7.2mm. AR COATED FOR 375-650nm	
				OVER 101.6		1.50 ±.20		AS-F6.2-D7.2-375/650	
				ANGULAR DIMENSIONS		DECIMAL PLACES		REV. A	
				BASIC DIMENSION		X .XX		4000-0219	
				ALL ANGLES		12.5* ±0.2*		SHEET 1 OF 1	
SURFACE FINISH		MILLED		PROFILED		SIZE: B		SCALE: 12:1	
		125μ		63μ		DWG.# 4000-0219			

4000-0219 A