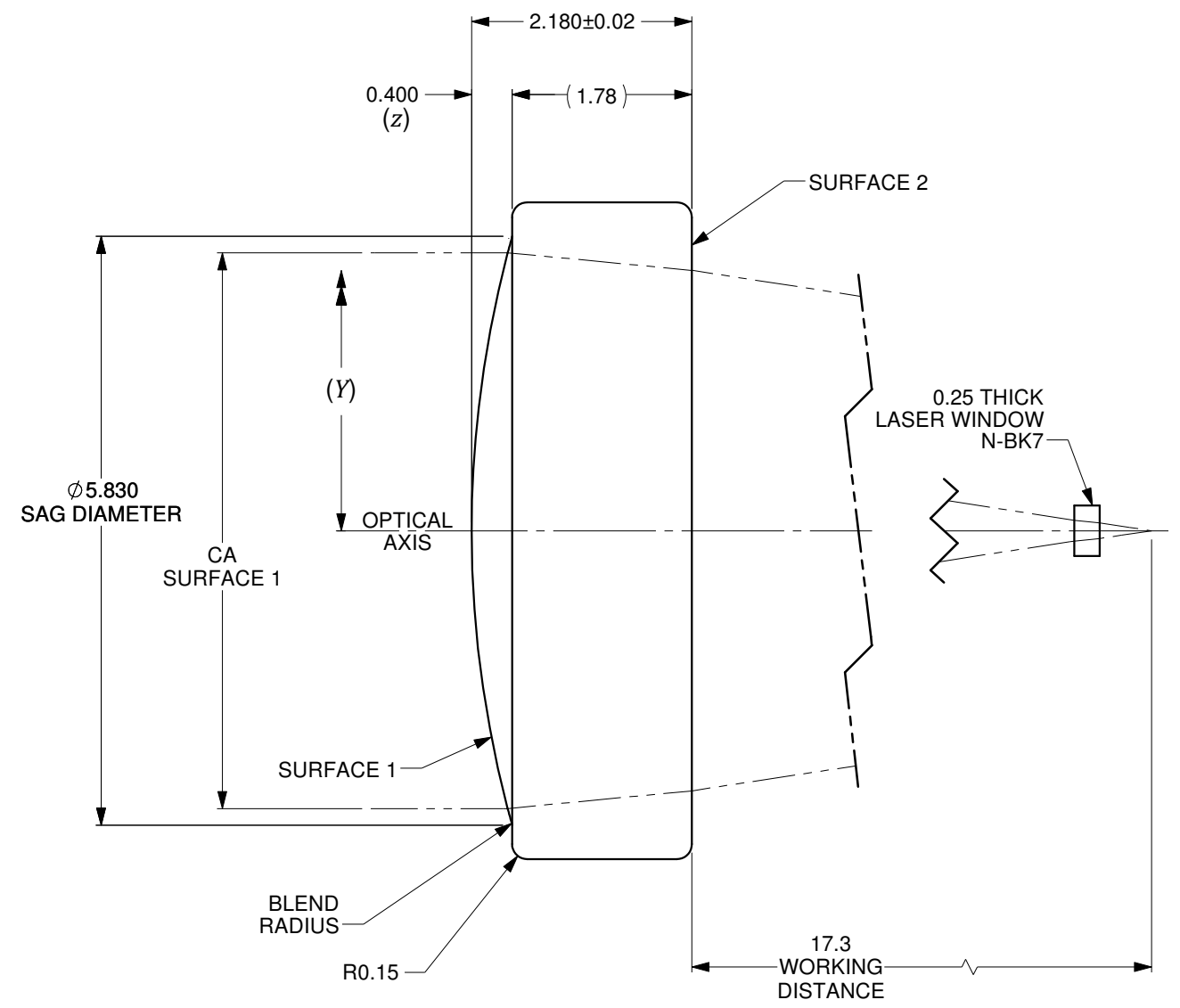
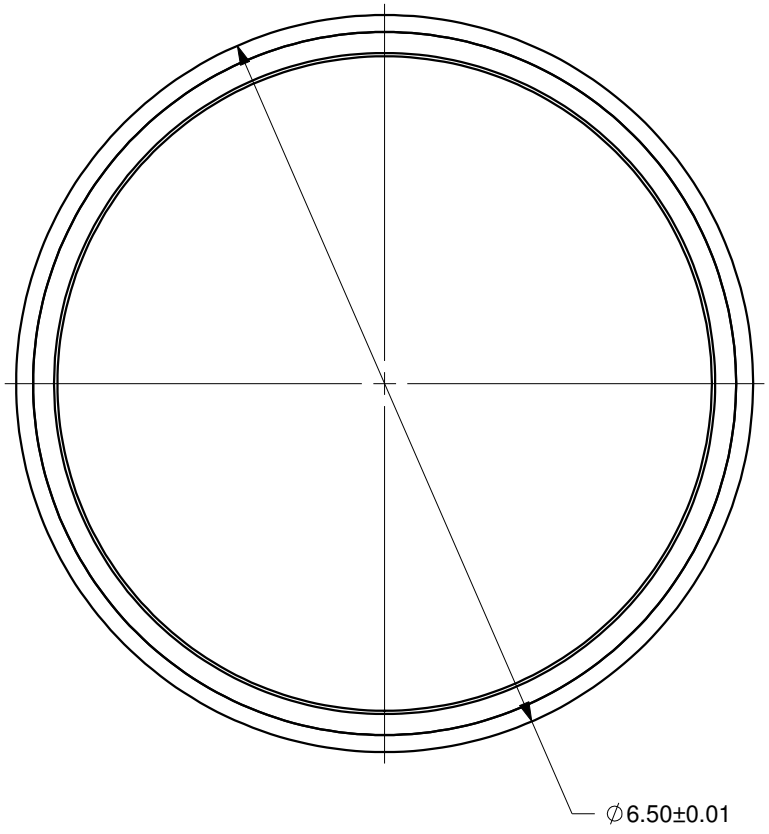


$$z = \frac{Y^2}{R \left(1 + \sqrt{1 - (1+k) \frac{Y^2}{R^2}} \right)} + A_4 Y^4 + A_6 Y^6 + \dots + A_n Y^n$$

	SURFACE 1	SURFACE 2
SURFACE TYPE	ASPHERIC	PLANO
CLEAR APERTURE (CA)	ø5.50mm	ø5.15mm MIN.
RADIUS OF CURVATURE	10.65991mm	INF.
<i>k</i>	-0.68649E-005	0
<i>A</i> ₄	1.04606E-005	0
<i>A</i> ₆	0	0
<i>A</i> ₈	0	0
<i>A</i> ₁₀	0	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	0.15
EFFECTIVE FOCAL LENGTH	18.57mm

NOTES :

- 1) MATERIAL: D-ZK3
- 2) WAVEFRONT ABERRATION (RMS): <0.08λ @ 632.8nm
- 3) AR COATING: 1000-1650 nm
REFLECTIVITY R_{max} <1.00%

REV.	ECR REF#	DESCRIPTION	ENG. BY	DATE
C	36613	k VALUE EXPONENT CORRECTED	C.M.	13-MAY-2021
B	N/A	k VALUE CORRECTED	C.M.	20-APR-2020
A	N/A	ORIGINAL ISSUE	C.M.	17-SEP-2019

ALL DIMENSIONS ARE IN MILLIMETERS

DRAWN BY:	P. SUMMERS	DATE:	5/13/2021
CHECKED BY:		DATE:	
M/S CHECKED BY:		DATE:	
APVD BY:		DATE:	

UNLESS NOTED OTHERWISE, DIMENSIONS ARE IN MILLIMETERS, INCHES ARE IN SQUARE BRACKETS, AND TOLERANCES APPLY AS SHOWN BELOW.

INCHES		
BASIC DIMENSION	.XX	.XXX
BELOW 4	±.01	±.005
OVER 4	±.02	±.01

MILLIMETERS		
BASIC DIMENSION	.X	.XX
BELOW 101.6	±.25	±.10
OVER 101.6	±.50	±.20

ANGULAR DIMENSIONS		
BASIC DIMENSION	X	X.X
ALL ANGLES	±2.5°	±0.5°

SURFACE FINISH		MILLED	PROFILED
		125u	63u

219 WESTBROOK ROAD
OTTAWA, ONTARIO
CANADA K0A 1L0

ozOptics
www.ozoptics.com

29

ASPHERIC LENS
f=18mm, OD=6.5mm. AR COATED FOR 1000-1650nm

AS-F18-D6.5-1000/1650

SCALE: 15:1

CONFIDENTIAL
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.