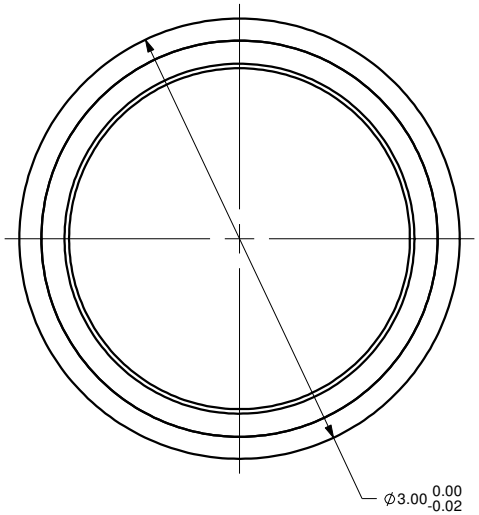
BARCODE #: 519

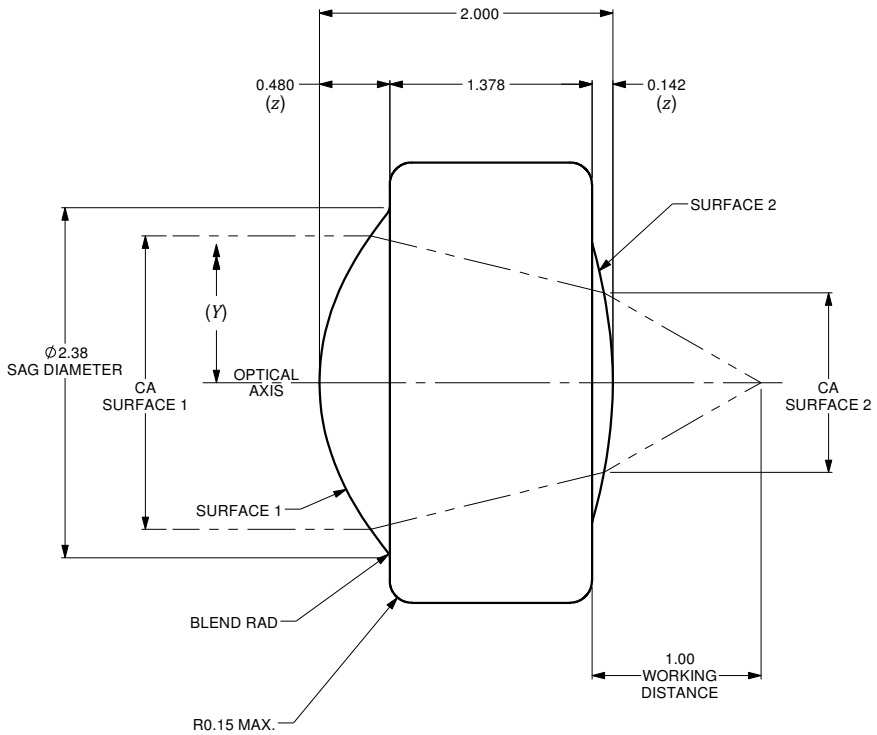
REV A

DWG NO. 4000-0208

$$z = \frac{Y^2}{R\left(1+\sqrt{1-(1+k)\frac{Y^2}{R^2}}\right)} + A_4Y^4 + A_6Y^6 + \cdots + A_nY^n$$

	SURFACE 1	SURFACE 2
SURFACE TYPE	ASPHERIC	ASPHERIC
CLEAR APERTURE (CA)	ø2.0mm	ø1.2mm
RADIUS OF CURVATURE	1.47987	-2.69
k	-1.15074	-5.51326
A_4	1.96499E-002	7.06676E-002
A_6	-2.10454E-003	-1.22369E-001
A_8	4.17382E-004	7.23867E-002
A_{10}	-1.79580E-003	-1.39030E-002
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	0.50
EFFECTIVE FOCAL LENGTH	2.0mm

NOTES :

1) MATERIAL: D-ZK3

2) WAVEFRONT ABERRATION (RMS): <0.05λ @ 632.8nm

3) AR COATING: 600-1050 nm

REFLECTIVITY R_{max} <1.00%

REV.	ECR REF#	DESCRIPTION	ENG. BY	DATE
A	N/A	ORIGINAL ISSUE	C.M.	10-SEP-2019

ALL DIMENSIONS ARE IN MILLIMETERS

DRAWN BY: P. SUMMERS — DATE: 9/10/2019
CHECKED BY: — DATE:
M/S CHECKED BY: — DATE:
APVD BY: — DATE:
PROJECTION:

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

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

MILLIMETERS	DECIMAL PLACES	
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

OZ Optics LIMITED
219 WESTBROOK ROAD
OTTAWA, ONTARIO
CANADA K0A 1L0
www.ozoptics.com

PART BARCODE #: 519

DESC: ASPHERIC LENS
f=2mm, OD=3mm. AR COATED FOR 600-1050nm

PART NO. AS-F2-D3-600/1050 — REV A

SIZE: B — DWG.# 4000-0208 — SHEET 1 OF 1 — SCALE: 30:1