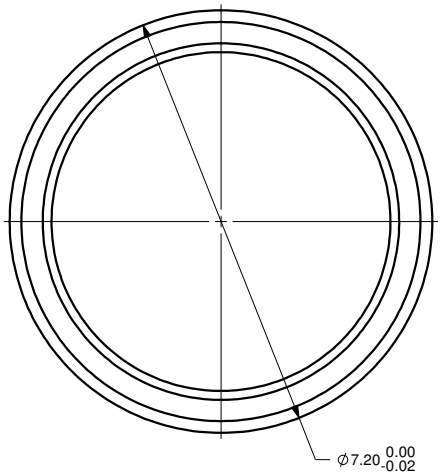
BARCODE #: 557

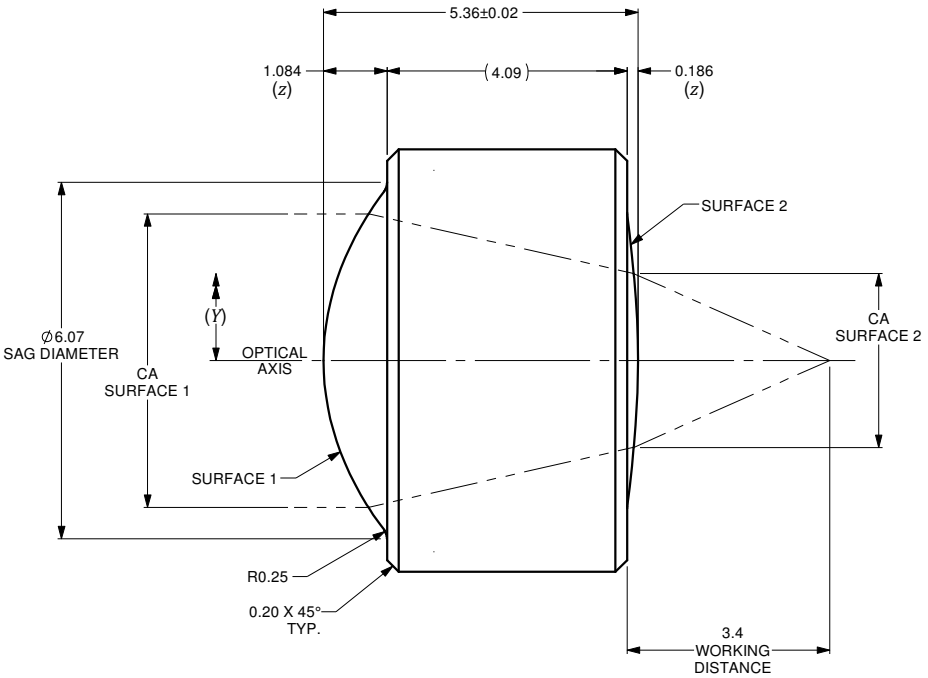
REV A

DWG NO. 4000-0221

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

	SURFACE 1	SURFACE 2
SURFACE TYPE	ASPHERIC	ASPHERIC
CLEAR APERTURE (CA)	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	6.3mm

NOTES :

1) MATERIAL: D-ZK3

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

3) AR COATING: -1000-1650 nm

-REFLECTIVITY R_{max} <1.00%

REV.	ECR REF#	DESCRIPTION	ENG. BY	DATE
A	N/A	ORIGINAL ISSUE	C.M.	17-SEP-2019

ALL DIMENSIONS ARE IN MILLIMETERS

DRAWN BY: P. SUMMERS — DATE: 9/17/2019
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

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

MILLIMETERS

BASIC DIMENSION	DECIMAL PLACES X	DECIMAL PLACES 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 #: 557

DESC: ASPHERIC LENS
f=6.2mm, OD=7.2mm. AR COATED FOR 1000-1650nm

PART NO.: AS-F6.2-D7.2-1000/1650 — REV: A

SIZE: B — DWG.#: 4000-0221 — SHEET 1 OF 1 — SCALE: 12:1