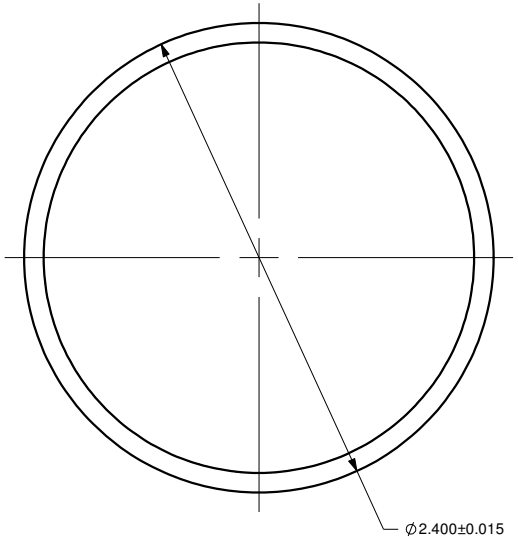
BARCODE #: 505

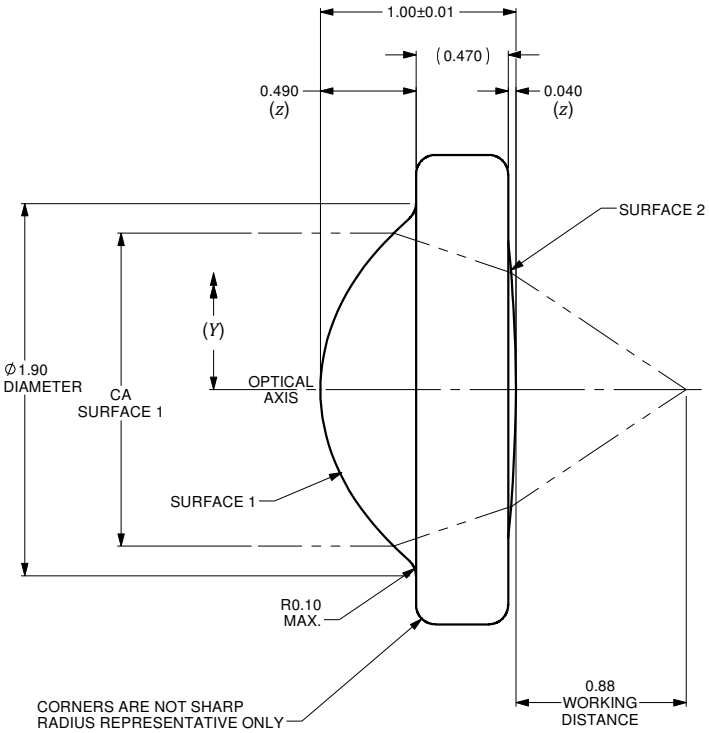
REV A

DWG. NO. 4000-0206

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

	SURFACE 1	SURFACE 2
SURFACE TYPE	ASPHERIC	ASPHERIC
CLEAR APERTURE (CA)	ø1.60mm	ø1.20mm
RADIUS OF CURVATURE	0.93244mm	-5.1384mm
k	-0.77603	0
A_4	3.45054E-002	13.19146E-002
A_6	3.57196E-002	-18.08095E-002
A_8	-8.25538E-002	12.62976E-002
A_{10}	13.19978E-002	-20.44727E-002
A_{12}	-10.38591E-002	14.74485E-002
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	0.56
EFFECTIVE FOCAL LENGTH	1.47mm

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
A	N/A	ORIGINAL ISSUE	C.M.	16-SEP-2019

ALL DIMENSIONS ARE IN MILLIMETERS

DRAWN BY: P. SUMMERS — DATE: 9/16/2019

CHECKED BY: — DATE:

M/S CHECKED BY: — DATE:

APVD BY: — DATE:

PROJECTION:

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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

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PART BARCODE #: 505

DESC.
ASPHERIC LENS
f=1.47mm, OD=2.4mm. AR COATED FOR 1000-1650nm

PART NO. AS-F1.4-D2.4-1000/1650 — REV A

SIZE: B — DWG.# 4000-0206 — SHEET 1 OF 1 — SCALE: 40:1