

NOTES:

- SUBSTRATE:  
Zeonex K22R
- COATING (APPLY ACROSS CLEAR APERTURE)

S1&S2: NONE

3. FINE GRIND SURFACE

- ASPHERIC SURFACE DEFINED BY:

$$Z_{ASPH}(Y) = \frac{\left(\frac{1}{RADIUS}\right)*Y^2}{1 + \sqrt{1 - (1+k)*\left(\frac{1}{RADIUS}\right)^2*Y^2}} + D*Y^2 + E*Y^4 + F*Y^6 + G*Y^8 + H*Y^{10} + J*Y^{12} + L*Y^{14} + M*Y^{16}$$

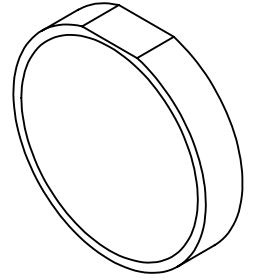
- SURFACE PROFILE CHANGE DUE TO DIFFRACTIVE PATTERN DEFINED BY:

$$Z_{DIFF}(Y) = \frac{1}{(nd - 1)} * (Z_2*Y^2 + Z_4*Y^4) + (STEP\_HEIGHT) * \left[ \left| \text{INT}\left(\frac{1}{\lambda} * (Z_2*Y^2 + Z_4*Y^4)\right) \right| \right]$$

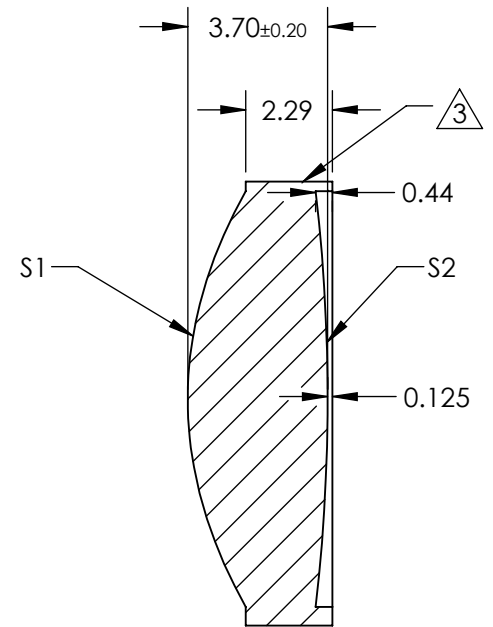
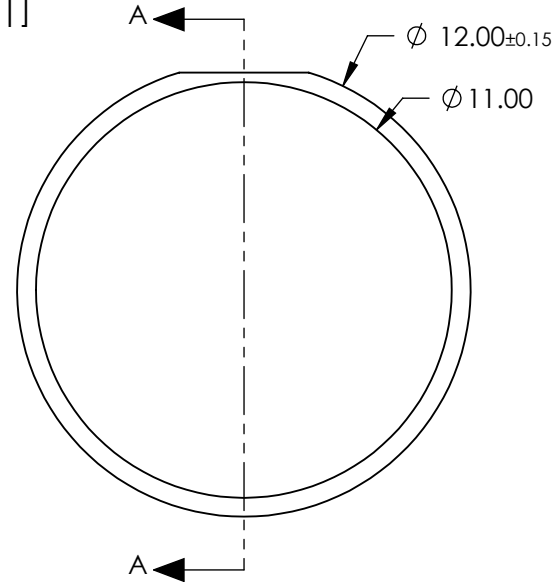
WHERE:  $STEP\_HEIGHT = \frac{\lambda}{(nd - 1)}$

**FOR INFORMATION ONLY:  
DO NOT MANUFACTURE  
PARTS TO THIS DRAWING**

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE  
DIMENSIONS ARE FOR REFERENCE ONLY



COEFFICIENT TABLE	
COEFFICIENT	S1
Z <sub>2</sub>	-1.850560E-03
Z <sub>4</sub>	0.000000E+00
λ	0.587 MICRONS
k	-7.100000E-01
D	0.000000E+00
E	-1.581980E-05
F	-2.770952E-07
G	-1.216086E-09
H	0.000000E+00
J	0.000000E+00
L	0.000000E+00
M	0.000000E+00



SECTION A-A

	S1	S2
SHAPE	CONVEX	CONVEX
RADIUS	9.93	48.30
SURFACE QUALITY	80-50	80-50
CLEAR APERTURE	Ø 10.00	Ø 10.00
BEVEL	PROTECTED AS NEEDED	PROTECTED AS NEEDED

THIRD ANGLE PROJECTION

ALL DIMS IN

mm

**Edmund Optics®**

TITLE

12mm Dia. x 15mm FL, Uncoated, Hybrid Asphere

DWG NO

21224

SHEET  
1 OF 1