

NOTES:

1. SUBSTRATE:
Zeonex K22R

2. COATING (APPLY ACROSS CLEAR APERTURE)

S1&S2: Ravg <0.7% @ 425 - 675nm

3. FINE GRIND SURFACE

4. ASPHERIC SURFACE DEFINED BY:

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

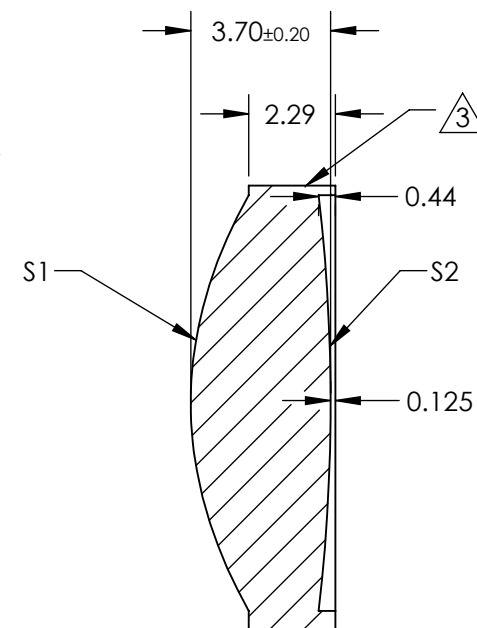
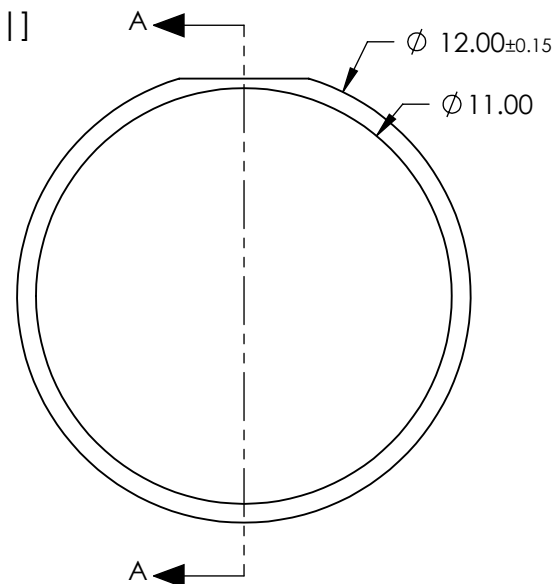
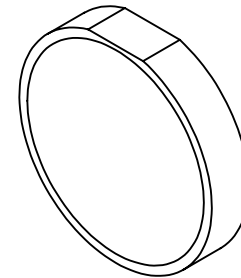
5. SURFACE PROFILE CHANGE DUE TO DIFFRACTIVE PATTERN DEFINED BY:

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

$$\text{WHERE: STEP_HEIGHT} = \frac{\lambda}{(nd - 1)}$$

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

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
DIMENSIONS ARE FOR REFERENCE ONLY



SECTION A-A

COEFFICIENT TABLE

COEFFICIENT	S1
Z_2	-1.850560E-03
Z_4	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

	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



ALL DIMS IN

mm

Edmund Optics®

TITLE

12mm Diameter x 15mm FL, VIS Coated,
Hybrid Asphere

DWG NO

21229

SHEET
1 OF 1