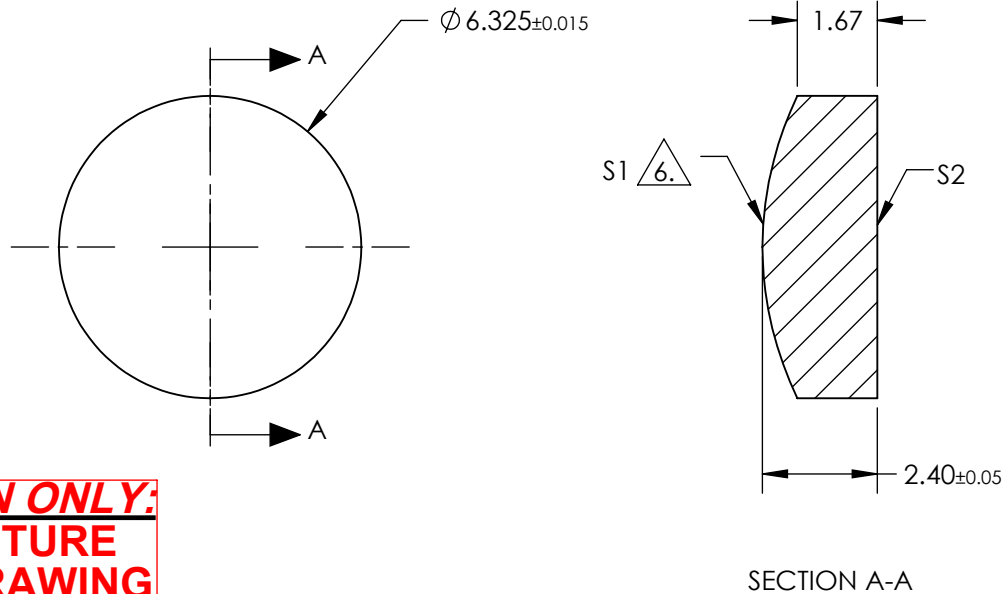


NOTES:

1. SUBSTRATE:
D-ZK3
2. NUMERICAL APERTURE: 0.22
3. COATING
S1 & S2: R(ABS) < 0.5% @ 1050 - 1600nm
4. FOCAL LENGTH TOLERANCE: ±1%
5. TRANSMITTED WAVEFRONT ERROR (λ, RMS): < 0.145
6. ASPERIC SURFACE DESCRIBED BY (REF COEFFICIENT TABLE)

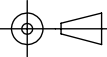
$$Z_{ASPH}(Y) = \frac{(1/RADIUS) * Y^2}{1 + \sqrt{1 - (1+k) * (1/RADIUS)^2 * Y^2}} + D * Y^2 + E * Y^4 + F * Y^6 + G * Y^8 + H * Y^{10} + J * Y^{12} + L * Y^{14}$$



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

COEFFICIENT TABLE 6.	
COEFFICIENT	S1
SEMI-DIAMETER	3.162500E+00
(1/RADIUS)	1.426045E-01
k	-1.381600E+00
D	0.000000E+00
E	2.923100E-04
F	-1.306800E-07
G	2.807700E-09
H	-2.157900E-11
J	0.000000E+00
L	0.000000E+00

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE DIMENSIONS ARE FOR REFERENCE ONLY

	S1	S2	EFL	12.00	 Edmund Optics®	
SHAPE	CONVEX	PLANO	BFL	10.60		
RADIUS	7.01	INFINITY			TITLE	0.22 NA 12mm FL 1050-1600nm COATED, LASER TOOL ASPHERIC LENS
SURFACE QUALITY	60 - 40	60 - 40			DWG NO	83690
CLEAR APERTURE	Ø5.20	Ø5.20	ALL DIMS IN	mm		
BEVEL MAX	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED				SHEET 1 OF 1