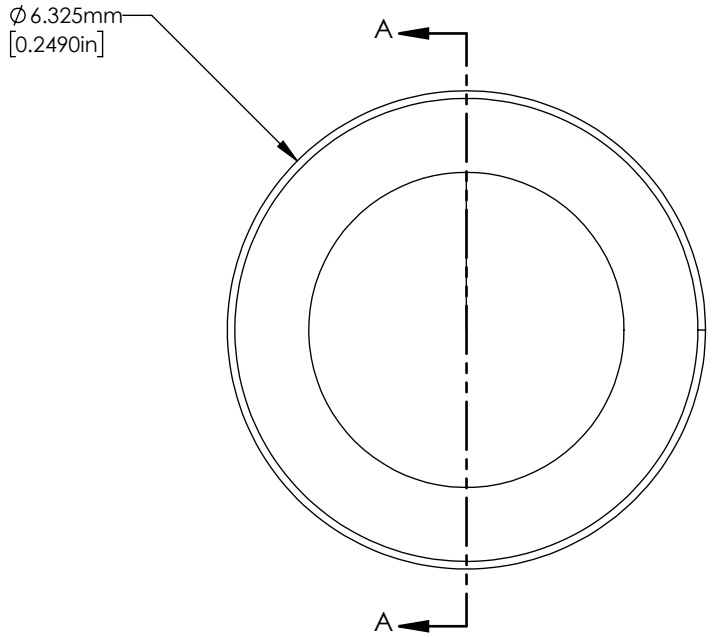
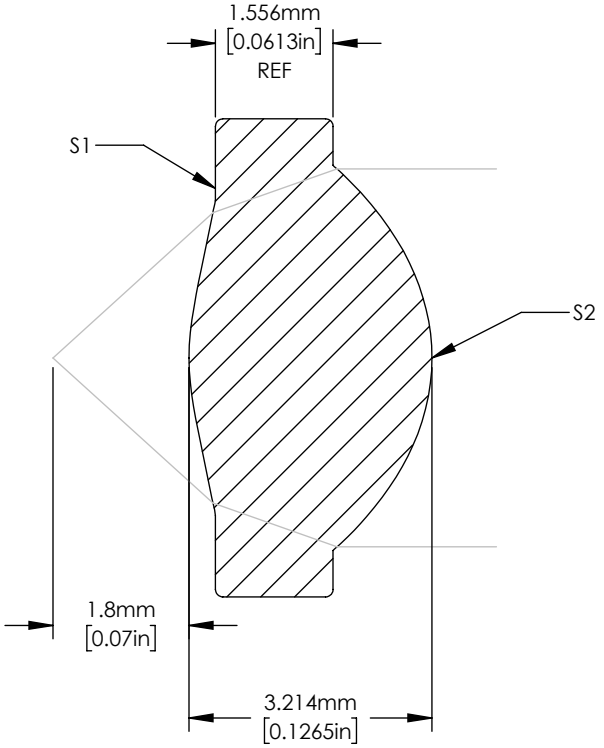
ASPHERIC COEFFICIENTS

	R	k	A_4	A_6	A_8	A_{10}	A_{12}	A_{14}	A_{16}
S1	2.979042	-12.102853	-8.068905E-03	1.725894E-03	-1.839072E-04	8.936267E-06	-	-	-
S2	-2.725382	-0.542123	2.077710E-05	1.373930E-04	-2.029328E-05	2.961194E-06	-	-	-

ASPHERIC LENS EQUATION

$$z = \frac{Y^2}{R(1+\sqrt{1-(1+k)Y^2/R^2})} + A_4Y^4 + A_6Y^6 + A_8Y^8 + A_{10}Y^{10} + A_{12}Y^{12} + A_{14}Y^{14} + A_{16}Y^{16}$$





SECTION A-A

NOTES/SPECIFICATIONS:

1. MATERIAL: D-ZK3
2. REFRACTIVE INDEX: 1.586 @ 587.6nm
3. DESIGN WAVELENGTH: 830 nm
4. CLEAR APERTURE:
   (S1): ∅3.84 mm
   (S2): ∅5.00 mm
5. EFFECTIVE FOCAL LENGTH: 3.1 mm ±1.0%
6. WORKING DISTANCE: 1.8 mm
7. NUMERICAL APERTURE: 0.70
8. DIAMETER TOLERANCE: ±0.015 mm
9. CENTER THICKNESS TOLERANCE: ±0.030 mm
10. SURFACE QUALITY: 40-20 SCRATCH-DIG (INCLUDES ENTIRE BULK MATERIAL)
11. RMS WFE: ≤DIFFRACTION LIMITED
12. MAGNIFICATION: INFINITE

FOR INFORMATION ONLY
NOT FOR MANUFACTURING PURPOSES

DRAWING PROJECTION		
	NAME	DATE
DRAWN	JAC	08/SEP/20
APPROVAL	DD	05/DEC/23

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VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUNDOFF ERRORS

THORLABS
www.thorlabs.com

0.70 NA ASPHERIC LENS,
f=3.1 mm, DW=830 nm

MATERIAL	REV
SEE NOTES	C

ITEM #	APPROX WEIGHT
354330	0.18 g