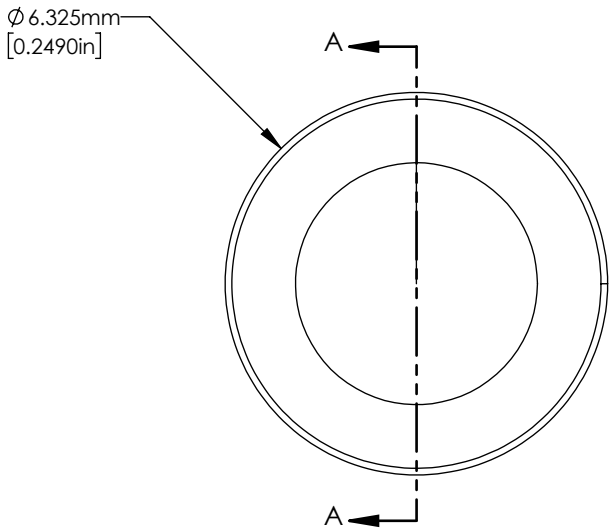
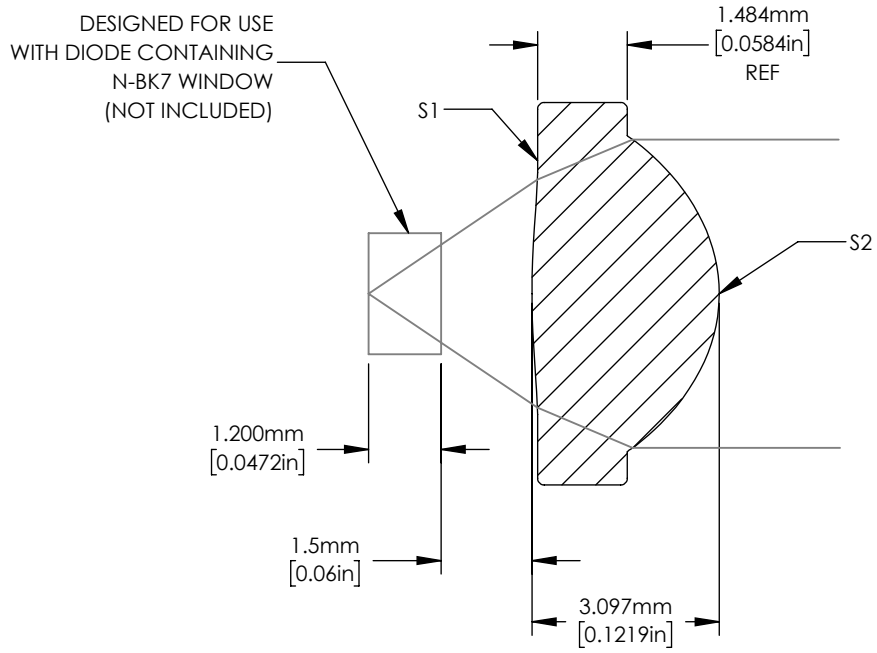
ASPHERIC COEFFICIENTS

	R	k	A_4	A_6	A_8	A_{10}	A_{12}	A_{14}	A_{16}
S1	12.675230	-	-4.463095E-03	8.996535E-05	1.601088E-06	-	-	-	-
S2	-2.619752	-0.444952	5.267410E-04	4.782383E-05	3.558253E-06	-1.813169E-07	-	-	-

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: 685 nm
4. CLEAR APERTURE:
   (S1): ∅3.77 mm
   (S2): ∅5.10 mm
5. LASER WINDOW MATERIAL: N-BK7
   WINDOW THICKNESS: 1.200 mm
   REFRACTIVE INDEX: 1.517
6. EFFECTIVE FOCAL LENGTH: 4.0 mm ±1.0%
7. NUMERICAL APERTURE: 0.64
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	18/DEC/23

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VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUNDOFF ERRORS

THORLABS
www.thorlabs.com

0.64 NA ASPHERIC LENS,
f=4.0 mm, DW=685 nm

MATERIAL	REV
SEE NOTES	C

ITEM #	APPROX WEIGHT
354340	0.18 g