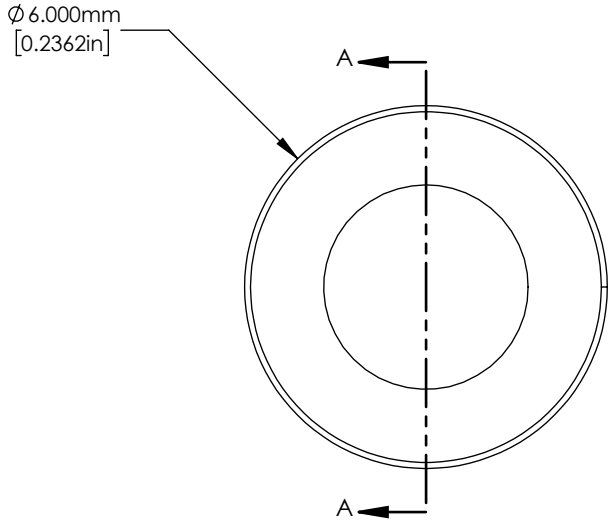
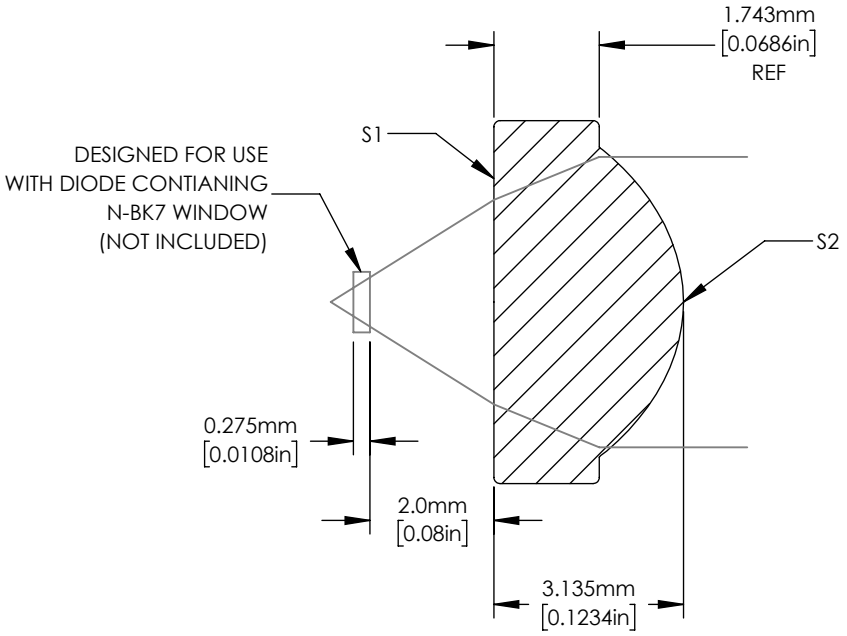
ASPHERIC COEFFICIENTS

	R	k	A_4	A_6	A_8	A_{10}	A_{12}	A_{14}	A_{16}
S1	PLANO	-	-	-	-	-	-	-	-
S2	-2.684150	-0.517612	-5.980307E-05	1.527613E-05	3.647708E-06	-1.381275eE-07	4.485638E-08	-	-

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: 655 nm
4. CLEAR APERTURE:
   (S1): ∅3.38 mm
   (S2): ∅4.80 mm
5. LASER WINDOW MATERIAL: N-BK7
   WINDOW THICKNESS: 0.275 mm
   REFRACTIVE INDEX: 1.517
6. EFFECTIVE FOCAL LENGTH: 4.6 mm ±1.0%
7. NUMERICAL APERTURE: 0.50
8. DIAMETER TOLERANCE: ±0.015 mm
9. CENTER THICKNESS TOLERANCE: ±0.020 mm
10. SURFACE QUALITY: 40-20 SCRATCH-DIG (INCLUDES ENTIRE BULK MATERIAL)
11. RMS WFE: ≤DIFFRACTION LIMITED
12. MAGNIFICATION: INFINITE
13. COATING (S1&S2): BBAR Ravg <0.5% FROM 350-700 nm, 0° AOI

FOR INFORMATION ONLY
NOT FOR MANUFACTURING PURPOSES

DRAWING PROJECTION		
	NAME	DATE
DRAWN	JAC	24/DEC/19
APPROVAL	DD	18/DEC/23

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VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUNDOFF ERRORS

THORLABS
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0.50 NA ASPHERIC LENS, f=4.6 mm, DW=655 nm, A COATED

MATERIAL	REV
SEE NOTES	C

ITEM #	APPROX WEIGHT
354453-A	0.18 g