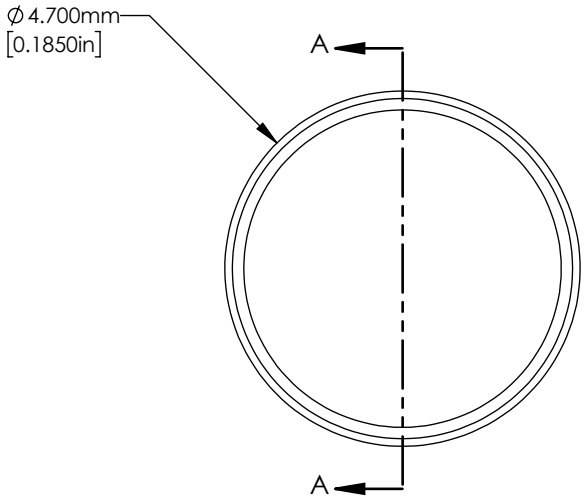
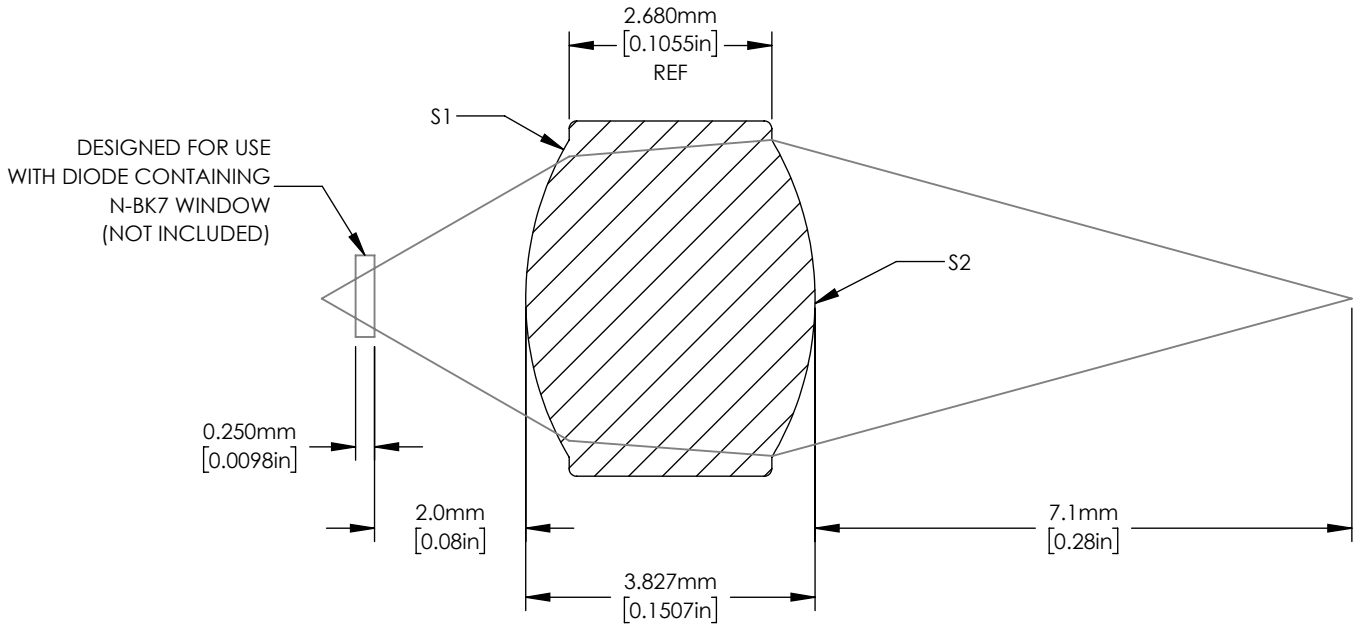
ASPHERIC COEFFICIENTS

	R	k	A_4	A_6	A_8	A_{10}	A_{12}	A_{14}	A_{16}
S1	3.200655	-4.321649	5.521153E-03	-1.981378E-03	4.782553E-04	-7.328134E-05	5.920460E-06	-9.104334E-08	-1.291935E-08
S2	-3.200655	-4.321649	-5.521153E-03	1.981378E-03	-4.782553E-04	7.328134E-05	-5.920460E-06	9.104334E-08	1.291935E-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
SCALE: 10:1

NOTES/SPECIFICATIONS:

1. MATERIAL: D-ZLAF52LA
2. REFRACTIVE INDEX: 1.806 @ 587.6nm
3. DESIGN WAVELENGTH: 980 nm
4. CLEAR APERTURE:
   S1: Ø3.76 mm
   S2: Ø4.12 mm
5. LASER WINDOW MATERIAL: N-BK7
   WINDOW THICKNESS: 0.250 mm
   REFRACTIVE INDEX: 1.517
6. EFFECTIVE FOCAL LENGTH: 2.8 mm ±1.0%
7. NUMERICAL APERTURE: 0.26/0.52
8. DIAMETER TOLERANCE: ±0.015 mm
9. CENTER THICKNESS TOLERANCE: ±0.050 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

0.26/0.52 NA ASPHERIC LENS,
f=2.8 mm, DW=980 nm

MATERIAL	REV
SEE NOTES	C

ITEM #	APPROX WEIGHT
355440	0.25 g