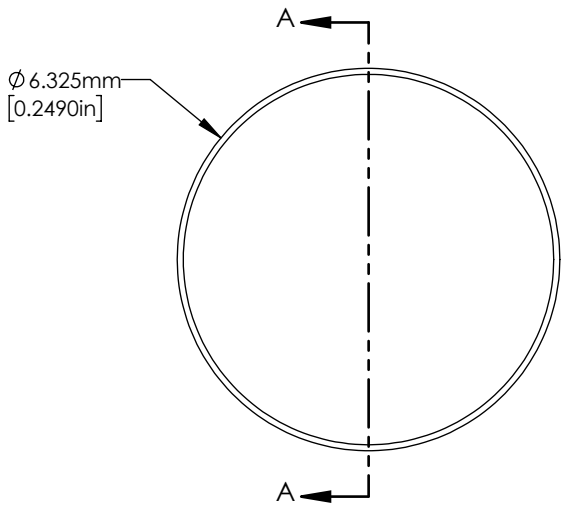
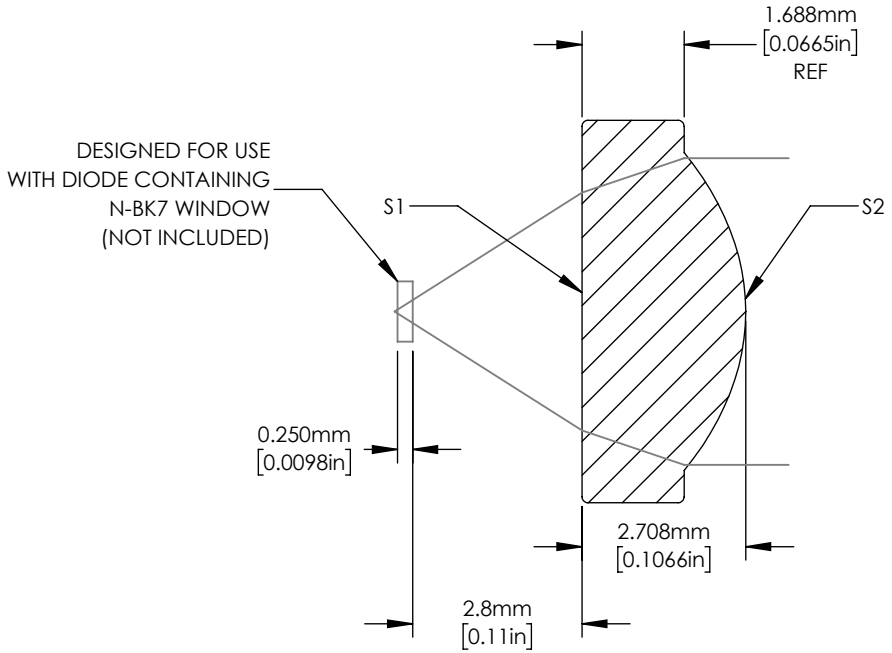
ASPHERIC COEFFICIENTS

| | R | k | $A_4$ | $A_6$ | $A_8$ | $A_{10}$ | $A_{12}$ | $A_{14}$ | $A_{16}$ |
|---|---|---|---|---|---|---|---|---|---|
| S1 | PLANO | - | - | - | - | - | - | - | - |
| S2 | -3.576018 | -0.924723 | -9.254780E-04 | -8.343884E-08 | 5.472568E-07 | 2.600541E-08 | -6.978885E-10 | - | - |

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-ZLAF52LA
2. REFRACTIVE INDEX: 1.806 @ 587.6nm
3. DESIGN WAVELENGTH: 780 nm
4. CLEAR APERTURE:
   (S1): ∅3.93 mm
   (S2): ∅5.07 mm
5. LASER WINDOW MATERIAL: N-BK7
   WINDOW THICKNESS: 0.250 mm
   REFRACTIVE INDEX: 1.517 @ 587.6nm
6. EFFECTIVE FOCAL LENGTH: 4.5 mm ±1.0%
7. NUMERICAL APERTURE: 0.55
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 | 05/DEC/23 |

COPYRIGHT © 2023 BY THORLABS

VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUNDOFF ERRORS

THORLABS
www.thorlabs.com

0.55 NA ASPHERIC LENS,
f=4.5 mm, DW=780 nm

| MATERIAL | REV |
|---|---|
| SEE NOTES | C |

| ITEM # | APPROX WEIGHT |
|---|---|
| 355230 | 0.29 g |