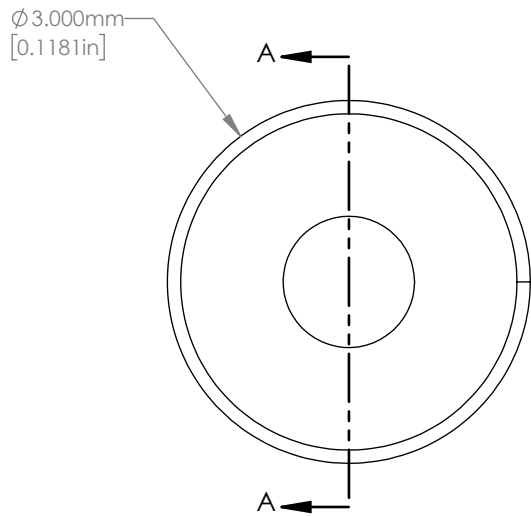


ASPHERIC COEFFICIENTS

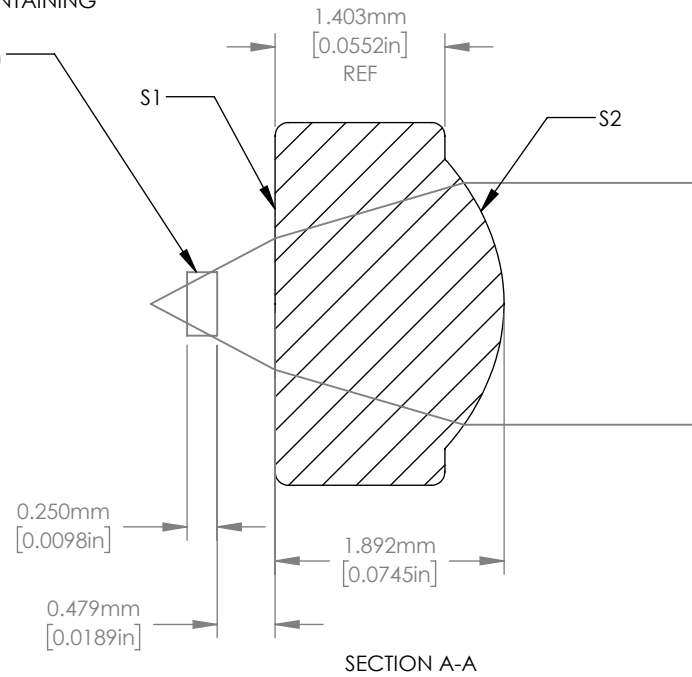
	R	k	A ₄	A ₆	A ₈	A ₁₀	A ₁₂	A ₁₄	A ₁₆
S1	PLANO	-	-	-	-	-	-	-	-
S2	1.586014	-2.062694	4.938263E-2	-6.116114E-3	1.717442E-3	-4.643557E-4	5.410885E-5	-	-

ASPHERIC LENS EQUATION

$$z = \frac{Y^2}{R(1 + \sqrt{1 - (1+k)Y^2/R^2})} + A_2Y^2 + A_4Y^4 + A_6Y^6 + A_8Y^8 + A_{10}Y^{10}$$



DESIGNED FOR USE WITH DIODE CONTAINING N-BK7 WINDOW (NOT INCLUDED)



NOTES/SPECIFICATIONS:

- MATERIAL: D-ZLAF52LA
- REFRACTIVE INDEX: 1.793±0.002
- DESIGN WAVELENGTH: 780nm
- CLEAR APERTURE: Ø2.00mm
- LASER WINDOW MATERIAL: N-BK7
WINDOW THICKNESS: 0.25mm
REFRACTIVE INDEX: 1.517
- EFFECTIVE FOCAL LENGTH: 2.00mm±1%
- NUMERICAL APERTURE: 0.50
- WORKING DISTANCE (FROM LENS TO LASER WINDOW): 0.48mm
- DIAMETER TOLERANCE: ±0.015mm
- CENTER THICKNESS TOLERANCE: ±0.04mm
- SURFACE QUALITY: 40-20 SCRATCH-DIG (INCLUDES ENTIRE BULK MATERIAL)
- RMS WFE: ≤ DIFFRACTION LIMITED
- COATING(S1&S2): BBAR Ravg<0.5% FROM 350-700nm, AOI=0°

FOR INFORMATION ONLY
NOT FOR MANUFACTURING PURPOSES

DRAWING PROJECTION			THORLABS www.thorlabs.com	
NAME	DATE	0.50 NA ASPHERIC LENS, f=2.00mm, DW=780nm, A COATED		
DRAWN	GG	25/FEB/14	MATERIAL	REV
APPROVAL	DD	25/FEB/14	D-ZLAF52LA	A
COPYRIGHT © 2014 BY THORLABS		ITEM #	APPROX WEIGHT	
VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUND OFF ERRORS		355151-A	0.02 kg	