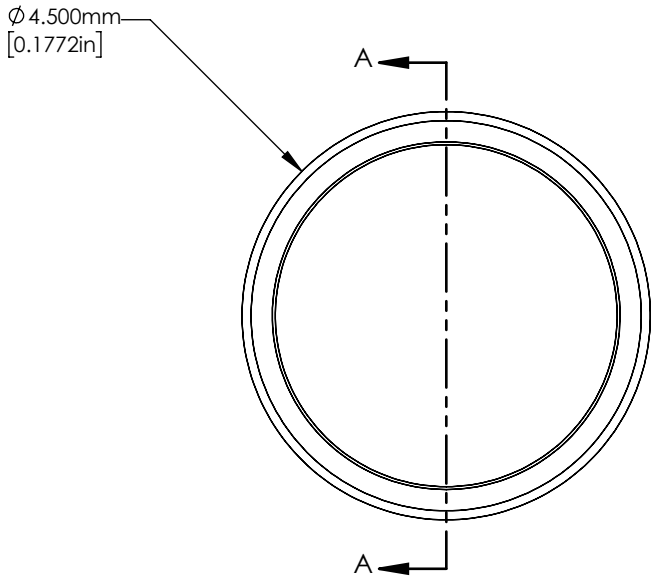
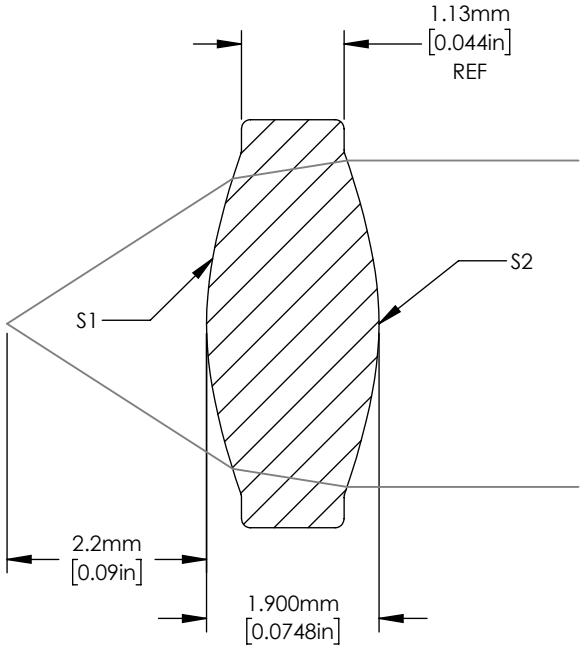
ASPHERIC COEFFICIENTS

	R	k	A_4	A_6	A_8	A_{10}	A_{12}	A_{14}	A_{16}
S1	3.879161	-0.431729	-8.168899E-03	-1.995690E-04	2.200933E-04	-3.982084E-05	2.656612E-06	-	-
S2	-3.879161	-0.431729	8.168899E-03	1.995690E-04	-2.200933E-04	3.982084E-05	-2.656612E-06	-	-

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: 830 nm
4. CLEAR APERTURE:
   (S1): Ø3.60 mm
   (S2): Ø3.60 mm
5. EFFECTIVE FOCAL LENGTH: 2.8 mm ±1.0%
6. NUMERICAL APERTURE: 0.55
7. DIAMETER TOLERANCE: ±0.015 mm
8. CENTER THICKNESS TOLERANCE: ±0.040 mm
9. SURFACE QUALITY: 40-20 SCRATCH-DIG (INCLUDES ENTIRE BULK MATERIAL)
10. RMS WFE: ≤DIFFRACTION LIMITED
11. MAGNIFICATION: INFINITE

FOR INFORMATION ONLY
NOT FOR MANUFACTURING PURPOSES

DRAWING PROJECTION		
	NAME	DATE
DRAWN	JAC	08/SEP/22
APPROVAL	DD	18/DEC/23

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VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUNDOFF ERRORS

THORLABS
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0.55 NA ASPHERIC LENS,
f=2.8 mm, DW=830 nm

MATERIAL	REV
SEE NOTES	D

ITEM #	APPROX WEIGHT
355390	0.10 g