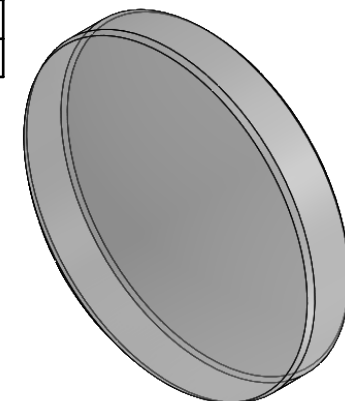


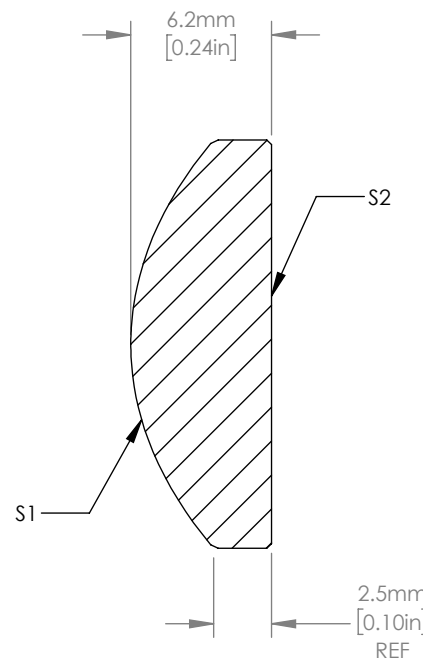
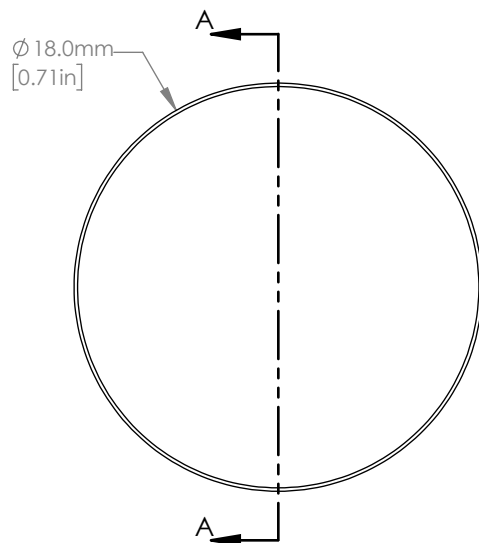
ASPHERIC COEFFICIENTS

	R	k	A ₄	A ₆	A ₈	A ₁₀	A ₁₂	A ₁₄	A ₁₆
S1	11.65	-1.1	3.6906721e-05	-1.2854612e-08	-1.4001677e-10	-2.5131166e-13	5.0178988e-16	5.8558715e-18	-1.1277944e-20
S2	INFINITE	-	-	-	-	-	-	-	-



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:

- CLEAR APERTURE (COLLIMATION): 16.5 mm
- CLEAR APERTURE (FOCUSING): 14.5 mm
- FOCAL LENGTH: EFL = 15.0 mm ± 1.0%
- Nd: 1.788 ± 0.001 Vd: 47.369 ± 1.0%
- DESIGN WAVELENGTH: 780 nm
- NUMERICAL APERTURE: 0.53
- WORKING DISTANCE (REF): 11.5 mm
- DIAMETER TOLERANCE: +0.0/-0.05 mm
- THICKNESS TOLERANCE: ± 0.1 mm
- SURFACE QUALITY: 60-40 SCRATCH-DIG
- RMS WAVEFRONT ERROR: <0.5 μm
- SAG DEVIATION (POWER)(S1): ± 7.5 μm
- RMS IRREGULARITY (S1): <3 FRINGES
- CENTRATION: <3 arcmin
- MAGNIFICATION: INFINITE
- COATING (S1 & S2): BBAR 650-1050 nm, Ravg: <0.5%, 0° AOI

FOR INFORMATION ONLY
NOT FOR MANUFACTURING PURPOSES

DRAWING PROJECTION					
NAME	DATE	Ø 18.0 mm ASPHERIC LENS, NA = 0.53, f = 15.0 mm, B-COAT			
DRAWN	DFS	24/SEP/19	MATERIAL		REV
APPROVAL	NE	08/FEB/20	S-LAH64		F
COPYRIGHT © 2020 BY THORLABS				ITEM #	APPROX WEIGHT
VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUND OFF ERRORS				AL1815-B	5 g