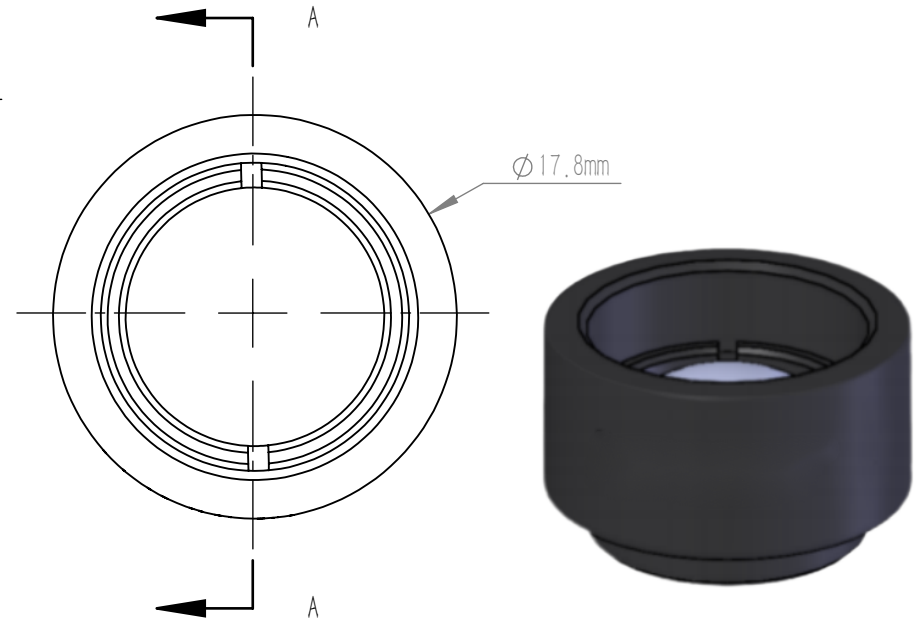
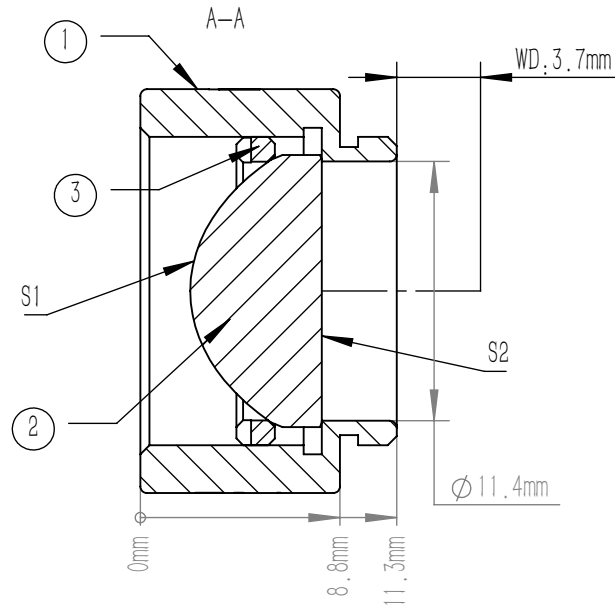


ASPHERIC LENS EQUATION

	R	k	A4
S1	5.492	-0.6230	8.7E-05
S2	PLANO	-	-

ASPHERIC COEFFICIENTS

$$z = \frac{y^2}{R(1 + \sqrt{1 - (1+k)y^2/R^2})} + A_4 y^4$$



NOTE

1. DESIGN WAVELENGTH: 633.0 nm
2. CLEAR APERTURE: >90%CA
3. OPERATION WAVELENGTH: 380 nm-2.1 μm
4. NA: 0.54
5. F/#: 0.97
6. DIAMETER TOLERANCE: +0.0/-0.5 mm
7. THICKNESS TOLERANCE: ±0.3 mm
8. FOCAL LENGTH: 10.5 mm±8%
9. BACK FOCAL LENGTH(REF): 7.0 mm
10. SURFACE QUALITY(S1,S2): 80/50 (S/D)
11. SURFACE FLATNESS(S2): λ/2@632.8 nm
12. CENTRATION: <30 arcmin
13. CHAMFER: <0.2 mm, 45°
14. COATING(S1,S2): UNCOATED

	PART DESCRIPTION	MATERIAL
①	SM05L8A	ANODIZED ALUMINIUM
②	ASL1210	B270
③	SM05SR	ANODIZED ALUMINIUM

DRAWING PROJECTION				 cruiss-optics.com			
DRAWN	WENSHUO	DATE	2024/08/27	Ø 12.0 mm, F=10.5 mm, NA=0.54 ASPHERIC CONDENSER LENS UNCOATED			
APPROVAL	SHAWN	DATE	2024/08/27	MATERIAL	WEIGHT	SCALE	REV
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES				N/A		2:1	A