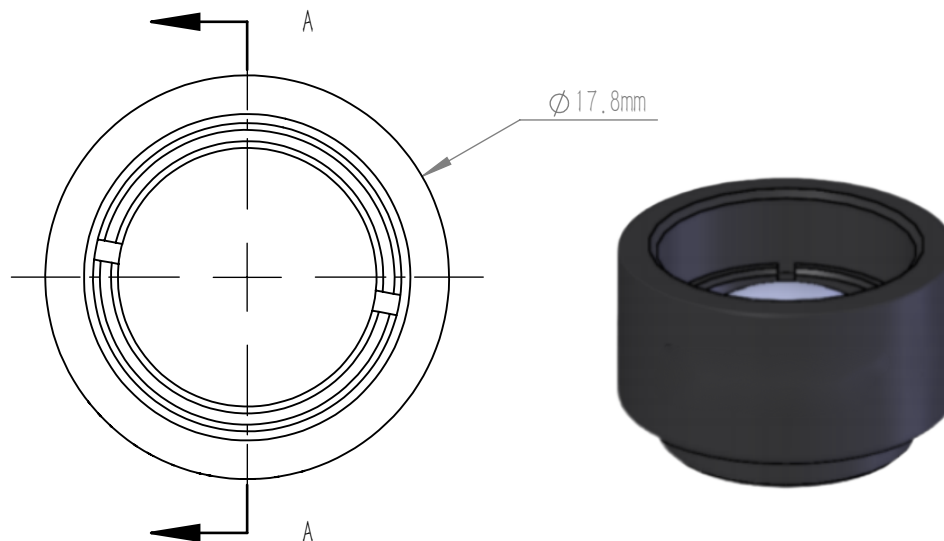
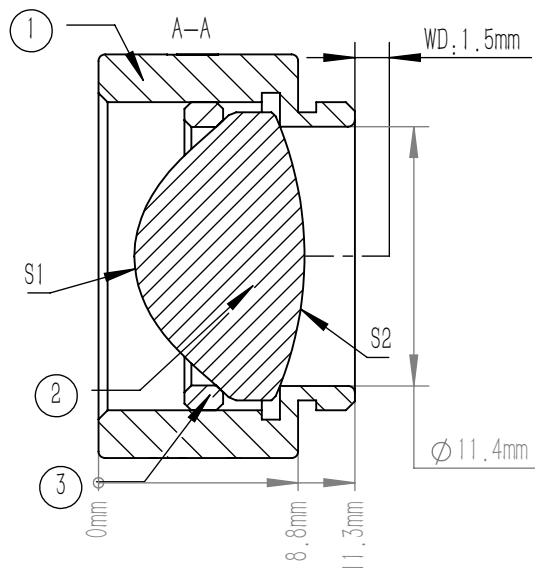


ASPHERIC LENS EQUATION

	R	k	A4	A6	A8	A10	A12
S1	4.75312 4	- 1.20507 1	5.3324183E- 04	1.1162887E -05	-3.745566E- 07	- 7.6342017E-0 9	1.36022E- 010
S2	- 15.6494	-	-	-	-	-	-

$$z = \frac{Y^2}{R(1 + \sqrt{1 - (1+k)Y^2/R^2})} + A_4Y^4 + A_6Y^6 + A_8Y^8 + A_{10}Y^{10} + A_{12}Y^{12}$$

ASPHERIC COEFFICIENTS



NOTE

1. DESIGN WAVELENGTH: 633.0 nm
2. CLEAR APERTURE: >90%CA
3. OPERATION WAVELENGTH: 380 nm-2.1 μm
4. NA: 0.78
5. F/#: 0.70
6. DIAMETER TOLERANCE: +0.0/-0.5 mm
7. THICKNESS TOLERANCE: ±0.3 mm
8. FOCAL LENGTH: 8.0 mm±8%
9. BACK FOCAL LENGTH(REF): 3.7 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	ASL12708	B270
③	SM05SR	ANODIZED ALUMINIUM

DRAWING PROJECTION				 cruiss-optics.com			
	NAME	DATE	ASL12708M				
DRAWN	WENSHUO	2024/08/27	∅ 12.7 mm, F=8.0 mm, NA=0.78 ASPHERIC CONDENSER LENS UNCOATED				
APPROVAL	SHAWN	2024/08/27	MATERIAL	WEIGHT	SCALE	REV	
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES			N/A		2:1	A	