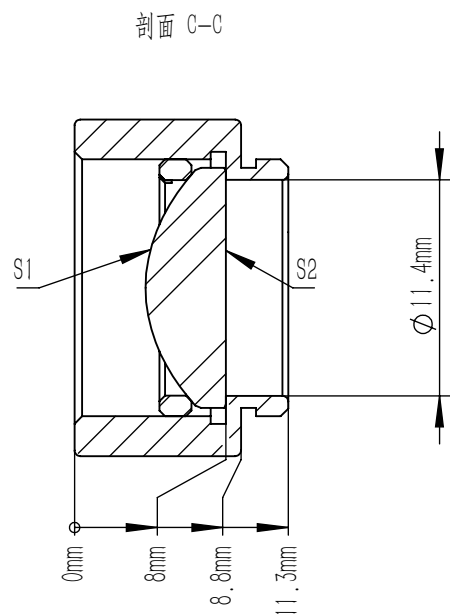
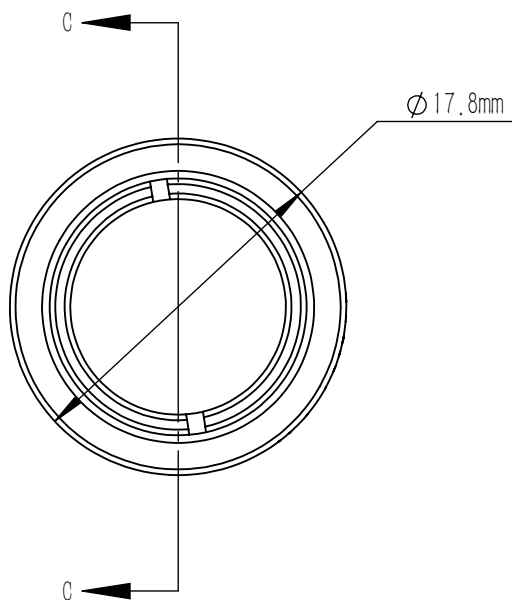


ASPHERIC COEFFICIENTS	R	K	A4	A6	A8	A10	A12	A14	A16
S1	7.770	-1.0	9.846e-05	-6.991e-08	-2.387e-09	-1.133e-11	8.726e-14	2.897e-16	1.763-e18
S2	∞	-	-	-	-	-			

	Part Description	Material
①	SM05R	ANODIZED ALUMINUM
②	SM05-8A	ANODIZED ALUMINUM
③	AC7908	S-LAH64 or Equivalent Materials

ASPHERIC LENS EQUATION

$$Z = \frac{Y^2}{R(1 + \sqrt{1 - (1 + K)Y^2 / R^2})} + A_4Y^4 + A_6Y^6 + A_8Y^8 + A_{10}Y^{10} + A_{12}Y^{12} + A_{14}Y^{14} + A_{16}Y^{16}$$



NOTES

- DESIGN WAVELENGTH: 780.0 nm
- NUMERICAL APERTURE: 0.50
- FOCAL LENGTH: 10.0 mm $\pm 1\%$
- BACK FOCAL LENGTH(REF): 7.61 mm
- CLEAR APERTURE: $>90\%$ CA
- DIAMETER TOLERANCE: $+0.0/-0.1$ mm
- THICKNESS TOLERANCE: ± 0.1 mm
- CHAMFER: 0.2 mm, 45°
- WAVEFRONT ERROR(RMS): $< 0.5 \mu\text{m}$
- SURFACE POWER(S1): $\pm 7.5 \mu\text{m}$
- SURFACE IRREGULARITY(S1): < 3 FRINGES
- SURFACE FLATNESS(S2): $\lambda/4@633$ nm
- SURFACE QUALITY(S1,S2): 60/40 (S/D)
- CENTRATION: < 3 arcmin
- AR COATING(S1,S2): UNCOATED

DRAWING PROJECTION			LBTEK			
	NAME	DATE				
DRAWN	ZLIN	NOV./15th/25	ASPHERIC LENS			
APPROVAL	WCHENG	NOV./15th/25	MATERIAL	WEIGHT	SCALE	REV
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES			S-LAH64	10.00 g	2.5:1	A