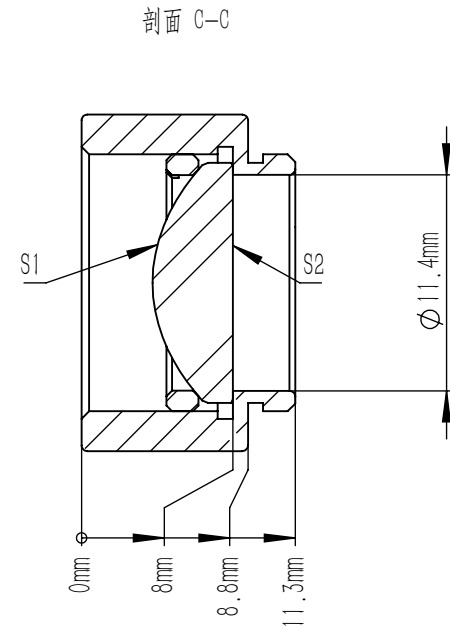
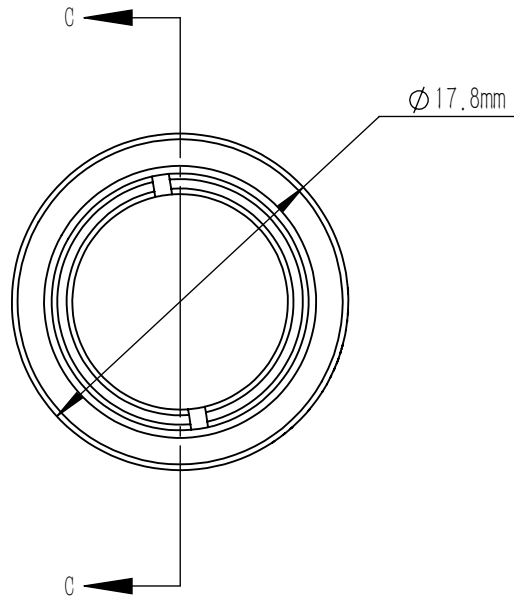


ASPHERIC COEFFICIENTS	R	K	A4	A6	A8	A10	A12	A14	A16
S1	7.770	-1.0	9.846e-05	-6.991e-08	-2.387e-09	-1.133e-11	8.726e-14	2.897e-16	1.763-e18
S2	∞	-	-	-	-	-	-	-	-

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

ASPHERIC LENS EQUATION

$$Z = \frac{Y^2}{R(1 + \sqrt{1 - (1 + K)Y^2 / R^2})} + A_4 Y^4 + A_6 Y^6 + A_8 Y^8 + A_{10} Y^{10} + A_{12} Y^{12} + A_{14} Y^{14} + A_{16} Y^{16}$$



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:  $\pm 0.1$  mm
- CHAMFER: 0.2 mm,  $45^\circ$
- 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):  $\lambda / 4 @ 633 \text{ nm}$
- SURFACE QUALITY(S1, S2): 60/40 (S/D)
- CENTRATION:  $< 3$  arcmin
- AR COATING(S1, S2):  $R_{\text{avg}} < 0.5\% @ 1050-1700 \text{ nm}, 6^\circ \text{ AOI, Single Surface}$

DRAWING PROJECTION			<b>LBTEK</b>			
	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