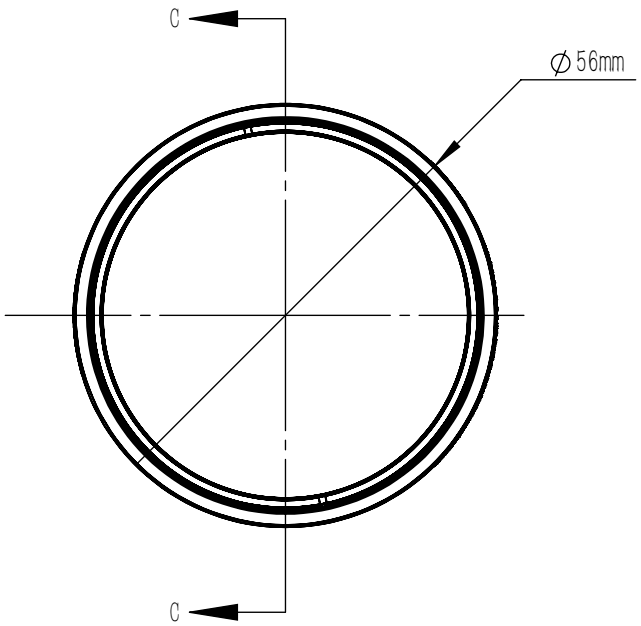
ASPHERIC COEFFICIENTS

	R	K	A4	A6	A8	A10
S1	51.12	−0.575	−4.837e−11	−8.576e−12	−2.014e−15	−4.598e−19
S2	∞	–	–	–	–	–

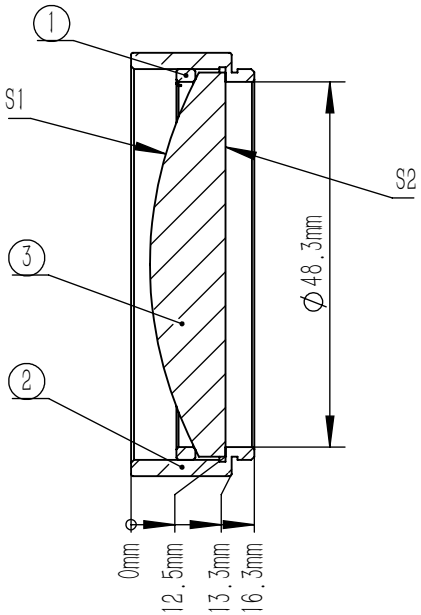
	Part Description	Material
①	SM2R	ANODIZED ALUMINUM
②	SM2−12.5A	ANODIZED ALUMINUM
③	AC1811	N−BK7 or Equivalent Materials

ASPHERIC LENS EQUATION

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



剖面 C−C
比例 1 : 1



NOTES

1. DESIGN WAVELENGTH: 780.0 nm
2. NUMERICAL APERTURE: 0.22
3. FOCAL LENGTH: 100.0 mm±1%
4. BACK FOCAL LENGTH(REF): 93.4 mm
5. CLEAR APERTURE: >90%CA
6. DIAMETER TOLERANCE: +0.0/−0.1 mm
7. THICKNESS TOLERANCE: ±0.1 mm
8. CHAMFER: 0.2 mm,45°
9. WAVEFRONT ERROR(RMS): <0.5 μm
10. SURFACE POWER(S1): ±7.5μm
11. SURFACE IRREGULARITY(S1): <3 FRINGES
12. SURFACE FLATNESS(S2): λ/4@633 nm
13. SURFACE QUALITY(S1,S2): 60/40 (S/D)
14. CENTRATION: <3 arcmin
15. AR COATING(S1,S2): UNCOATED

DRAWING PROJECTION			LBTEK			
	NAME	DATE	MAC1811			
DRAWN	ZLIN	NOV./15th/25	ASPHERIC LENS			
APPROVAL	WCHENG	NOV./15th/25	MATERIAL	WEIGHT	SCALE	REV
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES			N−BK7	157.00g	1:1	A