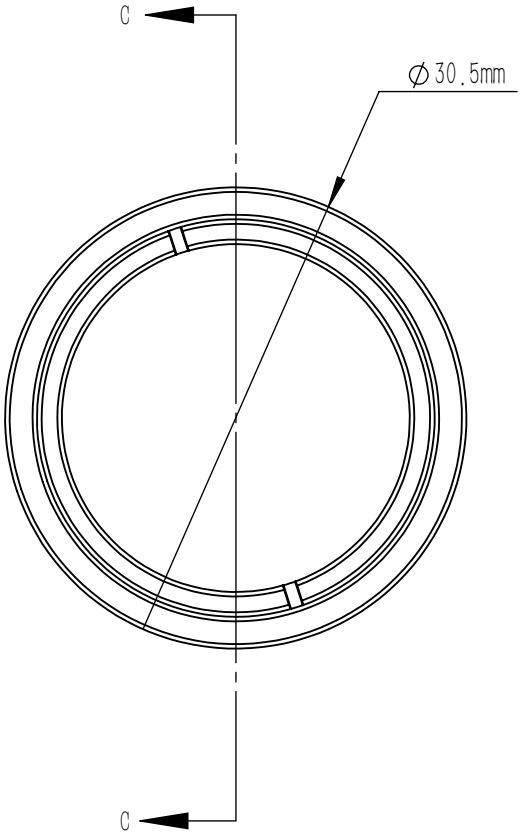
ASPHERIC COEFFICIENTS	R	K	A4	A6	A8	A10	A12
S1	31.076	−1.711	4.199e−06	−1.074e−09	−5.076e−12	5.162e−14	−1.653e−16
S2	∞	–	–	–	–	–	

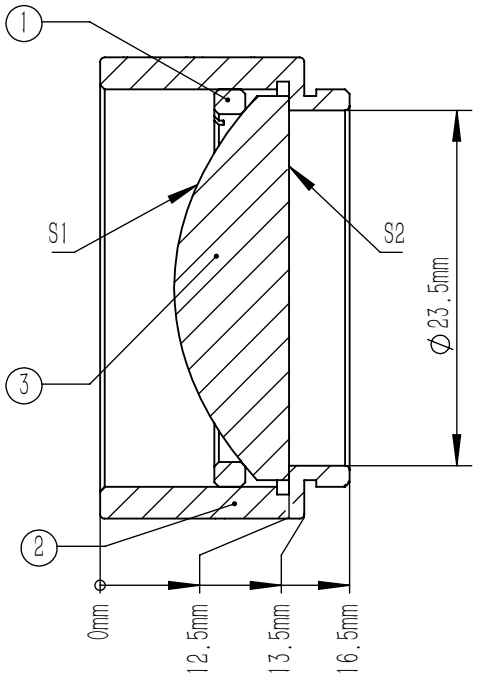
	Part Description	Material
①	SM1R	ANODIZED ALUMINUM
②	SM1−12.5A	ANODIZED ALUMINUM
③	AC7607−B	S−LAH64 or Equivalent Materials

ASPHERIC LENS EQUATION

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



剖面 C−C



NOTES

1. DESIGN WAVELENGTH: 780.0 nm
2. NUMERICAL APERTURE: 0.27
3. FOCAL LENGTH: 40.0 mm±1%
4. BACK FOCAL LENGTH(REF): 37.4 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): Ravg:<0.5%@700 nm−1100 nm, 6 AOI

DRAWING PROJECTION			LBTEK			
	NAME	DATE	MAC7607−B			
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	29.13 g	2:1	A