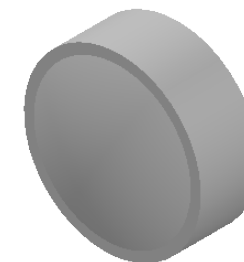


ASPHERIC COEFFICIENTS

	R	k	A4
S1	8.090100	-0.679000	2.395000E-05
S2	PLANO	-	-

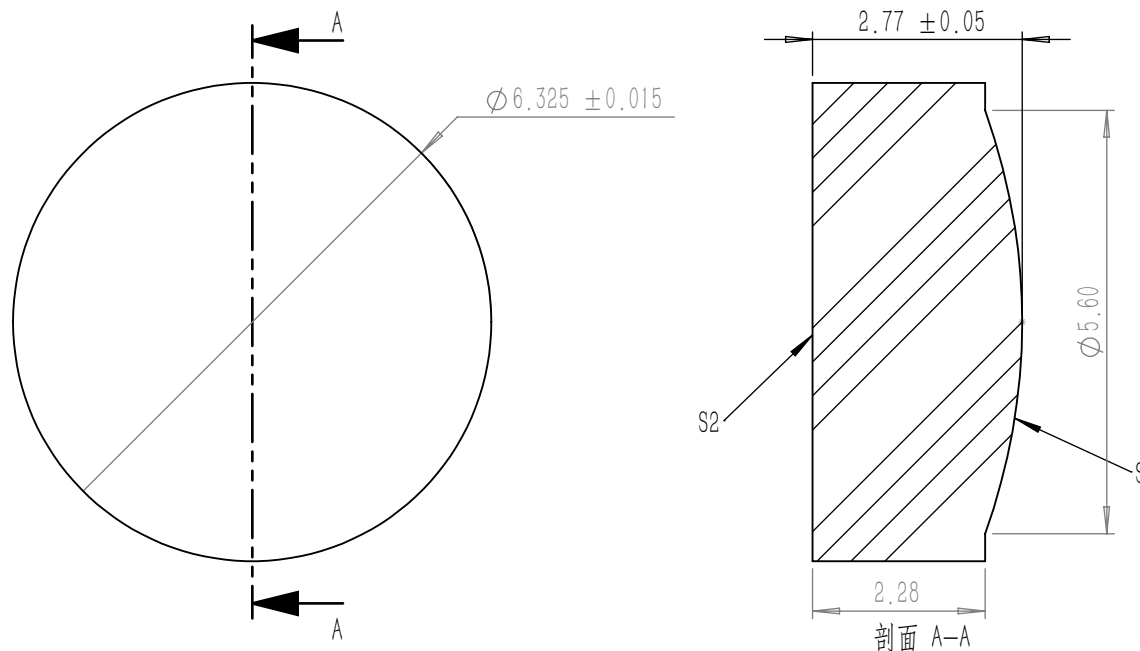


ASPHERIC LENS EQUATION

$$z = \frac{Y^2}{R(1 + \sqrt{1 - (1 + k)Y^2/R^2})} + A_4Y^4$$

NOTES

1. MATERIAL: D-ZK3
2. DESIGN WAVELENGTH: 650 nm
3. WORKING WAVELENGTH: 1100 nm-1700 nm
4. CLEAR APERTURE: (S1)  $\phi$ 5.10 mm, (S2)  $\phi$ 4.54 mm
5. NUMERICAL APERTURE: 0.2
6. FOCAL LENGTH: 13.8 mm
7. FOCAL LENGTH TOLERANCE:  $\pm 1.0\%$
8. BACK FOCAL LENGTH(REF): bf=12.0 mm
9. DIAMETER TOLERANCE:  $\pm 0.015$  mm
10. THICKNESS TOLERANCE:  $\pm 0.05$  mm
11. CHAMFER: 0.2 mm, 45°
12. SURFACE QUALITY: 40-20 SCRATCH-DIG
13. WAVE FRONT ERROR:  $< 0.07 \lambda$  RMS@632.8 nm
14. CENTRATION:  $< 30$  arcmin
15. MAXIMUM TEMPERATURE: 250 °C(482 °F)
16. AR COATING: Ravg $< 0.5\%$ @1100 nm-1700 nm, 0°AOI



DRAWING PROJECTION			<b>LBTEK</b>			
	NAME	DATE	AC90620-C			
DRAWN	BSHU	Aug./1st/24	$\phi$ 6.3 mm, F=13.8 mm ASPHERIC CONDENSER LENS AR COATING 1100-1700 nm			
APPROVAL	WCHENG	Aug./1st/24	MATERIAL	WEIGHT	SCALE	REV
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES			D-ZK3	0.22g	10:1	A