



NUMBER	PART DESCRIPTION	MATERIAL
①	WAVEPLATE	QUARTZ
②	GASKET	GASKET
③	WAVEPLATE	MgF2

NOTES

- DESIGN WAVELENGTH: 700 nm–1100 nm
- CLEAR APERTURE:  $\varnothing 10\text{ mm}$
- DELAY:  $\lambda/2$
- DELAY TOLERANCE:  $\pm \lambda/50@700\text{ nm}–1100\text{ nm}$
- WAVEFRONT ERROR(RMS):  $\lambda/8 @632.8\text{ nm}$
- AR COATING(S1, S2, S3, S4):  $R_{\text{avg}} < 0.5\% @700\text{ nm}–1100\text{ nm}$
- THE FAST AXIS IS PARALLEL TO ONE CUT EDGE, ANGLE DEVIATION  $< \pm 1^\circ$
- CHAMFER:  $45^\circ, < 0.2\text{ mm}$
- SURFACE QUALITY (S1, S3) : 40/20 (S/D)  
(S2, S4) : 80/50 (S/D)
- PARALLELISM(S1, S2, S3, S4):  $< 10\text{ arcsec}$

DRAWING PROJECTION			<b>LBTEK</b>			
NAME	DATE	AHWP10-SNIR				
DRAWN	LZHOU	JUL./24th/24	ACHROMATIC QUARTZ ZERO-ORDER WAVEPLATE $\varnothing 25.4\text{ mm}, 10\text{ mm CA}, \lambda/2@700\text{ nm}–1100\text{ nm}$			
APPROVAL	WCHENG	JUL./24th/24	MATERIAL	WEIGHT	SCALE	REV
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES			QUARTZ & MgF2	7.4 g	2:1	B