



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

NOTES

- DESIGN WAVELENGTH: 400 nm–700 nm
- CLEAR APERTURE:  $\phi 20$  mm
- DELAY:  $\lambda / 2$
- DELAY TOLERANCE:  $\pm \lambda / 24 @ 400 \text{ nm} - 700 \text{ nm}$
- WAVEFRONT ERROR(RMS):  $\lambda / 8 @ 632.8 \text{ nm}$
- AR COATING(S1, S2, S3, S4):  $R_{\text{avg}} < 0.5\% @ 400 \text{ nm} - 700 \text{ nm}$
- 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	AHWP20-VIS				
DRAWN	LZHOU	MAY./15th/24	ACHROMATIC QUARTZ ZERO-ORDER WAVEPLATE $\phi 25.4 \text{ mm}$ , 20 mm CA, $\lambda / 2 @ 400 \text{ nm} - 700 \text{ nm}$			
APPROVAL	WCHENG	MAY./15th/24	MATERIAL	WEIGHT	SCALE	REV
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES			QUARTZ & MgF2	2.7 g	2:1	B