



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

NOTES

- DESIGN WAVELENGTH: 400 nm–700 nm
- CLEAR APERTURE: $\varnothing 20$ mm
- DELAY: $\lambda / 4$
- 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° , $< 0.2 \text{ mm}$
- SURFACE QUALITY (S1, S3): 40/20 (S/D)
(S2, S4): 80/50 (S/D)
- PARALLELISM(S1, S2, S3, S4): $< 10 \text{ arcsec}$

DRAWING PROJECTION				LBTEK			
	NAME	DATE	AQWP20-VIS				
DRAWN	LZHOU	MAY./15th/24	ACHROMATIC QUARTZ ZERO-ORDER WAVEPLATE $\varnothing 25.4 \text{ mm}, 20 \text{ mm CA}, \lambda / 4 @ 400 \text{ nm} - 700 \text{ nm}$				
APPROVAL	WCHENG	MAY./15th/24	MATERIAL	WEIGHT	SCALE	REV	
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES			QUARTZ & MgF2	3.2 g	2:1	B	