



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

NOTES

1. DESIGN WAVELENGTH: 1100 nm-1650 nm
2. CLEAR APERTURE: $\phi 20$ mm
3. DELAY: $\lambda / 4$
4. DELAY TOLERANCE: $\pm \lambda / 100$
5. WAVEFRONT ERROR(RMS): $\lambda / 8 @ 632.8$ nm
6. AR COATING(S1, S2, S3, S4): $R_{avg} < 0.5\% @ 1100$ nm-1650 nm
7. THE FAST AXIS IS PARALLEL TO ONE CUT EDGE, ANGLE DEVIATION $< \pm 1^\circ$
8. CHAMFER: 45° , < 0.2 mm
9. SURFACE QUALITY (S1, S3) : 40/20 (S/D)
(S2, S4) : 80/50 (S/D)
10. PARALLELISM(S1, S2, S3, S4): < 10 arcsec

DRAWING PROJECTION			LBTEK			
	NAME	DATE	AQWP20-LNIR			
DRAWN	LZHOU	JUL./24th/24	ACHROMATIC QUARTZ ZERO-ORDER WAVEPLATE $\phi 25.4$ mm, 20 mm CA, $\lambda / 4 @ 1100$ nm-1650 nm			
APPROVAL	WCHENG	JUL./24th/24	MATERIAL	WEIGHT	SCALE	REV
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES			QUARTZ & MgF2	3.9 g	2:1	B