



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

NOTES

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

DRAWING PROJECTION			LBTEK			
	NAME	DATE	AQWP10-LNIR			
DRAWN	LZHOU	JUL./24th/24	ACHROMATIC QUARTZ ZERO-ORDER WAVEPLATE $\varnothing 25.4$ mm, 10 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	6.9 g	2:1	B