



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

NOTES

- DESIGN WAVELENGTH: 700 nm–1100 nm
- CLEAR APERTURE: $\varnothing 20$ mm
- DELAY: $\lambda / 4$
- DELAY TOLERANCE: $\pm \lambda / 100$
- WAVEFRONT ERROR(RMS): $\lambda / 8$ @632.8 nm
- AR COATING(S1, S2, S3, S4): $R_{avg} < 0.5\%$ @700 nm–1100 nm
- THE FAST AXIS IS PARALLEL TO ONE CUT EDGE, ANGLE DEVIATION $< \pm 1^\circ$
- CHAMFER: 45° , < 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	AQWP20-SNIR				
DRAWN	LZHOU	JUL./24th/24	ACHROMATIC QUARTZ ZERO-ORDER WAVEPLATE $\varnothing 25.4$ mm, 20 mm CA, $\lambda / 4$ @700 nm–1100 nm				
APPROVAL	WCHENG	JUL./24th/24	MATERIAL	WEIGHT	SCALE	REV	
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES			QUARTZ & MgF2	3.8 g	2:1	B	