



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

NOTES

- DESIGN WAVELENGTH: 400 nm–700 nm
- CLEAR APERTURE: $\varnothing 10\text{ mm}$
- 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: $45^\circ, < 0.2\text{ mm}$
- SURFACE QUALITY (S1, S3): 40/20 (S/D)
(S2, S4): 80/50 (S/D)
- PARALLELISM(S1, S2, S3, S4): $< 10\text{ arcsec}$

DRAWING PROJECTION			LBTEK			
	NAME	DATE	AQWP10-VIS			
DRAWN	LZHOU	MAY./15th/24	ACHROMATIC QUARTZ ZERO-ORDER WAVEPLATE $\varnothing 25.4\text{ mm}, 10\text{ mm CA}, \lambda/4@400\text{ nm}–700\text{ nm}$			
APPROVAL	WCHENG	MAY./15th/24	MATERIAL	WEIGHT	SCALE	REV
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES			QUARTZ & MgF2	6.7 g	2:1	B