



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:  $\lambda / 2$
- DELAY TOLERANCE:  $\pm \lambda / 50$
- 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:  $45^\circ$ ,  $< 0.2$  mm
- SURFACE QUALITY (S1, S3): 40/20 (S/D)  
(S2, S4): 80/50 (S/D)
- PARALLELISM(S1, S2, S3, S4):  $< 10$  arcsec

DRAWING PROJECTION			<b>LBTEK</b>			
	NAME	DATE	AHWP20-SNIR			
DRAWN	LZHOU	MAY./15th/24	ACHROMATIC QUARTZ ZERO-ORDER WAVEPLATE $\varnothing 25.4$ mm, 20 mm CA, $\lambda / 2 @ 700$ nm–1100 nm			
APPROVAL	WCHENG	MAY./15th/24	MATERIAL	WEIGHT	SCALE	REV
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES			QUARTZ & MgF2	5.4 g	2:1	B