



SECTION A-A

NUMBER	PART DESCRIPTION	MATERIAL
①	WAVEPLATE	QUARTZ
②	MECHANICAL HOUSING	ANODIZED ALUMINIUM

NOTES

1. DESIGN WAVELENGTH: 1310 nm
2. CLEAR APERTURE: $\varnothing 20$ mm
3. DELAY: $\lambda/2$
4. DELAY TOLERANCE: $\pm \lambda/350$
5. WAVEFRONT ERROR(RMS): $\lambda/6$ @633 nm WITHIN CA RANGE
 $\lambda/8$ @633 nm WITHIN 50% CA RANGE
6. AR COATING(S1,S2): V coating @1310 nm
 $R_{avg} < 0.25\%$ (6° AOI, SINGLE SURFACE)
7. CHAMFER: 45° , < 0.2 mm
8. SURFACE QUALITY(S1,S2): 10/5(S/D)
9. PARALLELISM(S1,S2): < 3 arcsec

DRAWING PROJECTION			LBTEK			
NAME	DATE	HWP20-1310BT				
DRAWN	LZHOU	JUL./16th/24	QUARTZ TRUE ZERO-ORDER WAVEPLATE $\varnothing 25.4$ mm, 20 mm CA, $\lambda/2$ @1310 nm			
APPROVAL	WCHENG	JUL./16th/24	MATERIAL	WEIGHT	SCALE	REV
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES			QUARTZ	1.9 g	2:1	B