



SECTION A-A

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

NOTES

- DESIGN WAVELENGTH: 850 nm
- CLEAR APERTURE:  $\varnothing 20$  mm
- DELAY:  $\lambda / 2$
- DELAY TOLERANCE:  $\pm \lambda / 350$
- WAVEFRONT ERROR(RMS):  $\lambda / 6$  @633 nm WITHIN CA RANGE  
 $\lambda / 8$  @633 nm WITHIN 50% CA RANGE
- AR COATING(S1,S2): V coating @850 nm  
 $R_{avg} < 0.25\%$  (6° AOI, SINGLE SURFACE)
- CHAMFER: 45° ,  $< 0.2$ mm
- SURFACE QUALITY(S1,S2): 10/5(S/D)
- PARALLELISM(S1,S2):  $< 3$  arcsec

DRAWING PROJECTION			<b>LBTEK</b>			
	NAME	DATE				
DRAWN	LZHOU	JUL./16th/24	QUARTZ TRUE ZERO-ORDER WAVEPLATE $\varnothing 25.4$ mm, 20 mm CA, $\lambda / 2$ @850 nm			
APPROVAL	WCHENG	JUL./16th/24	MATERIAL	WEIGHT	SCALE	REV
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES			QUARTZ	1.9 g	2:1	B