



NOTES

1. DESIGN WAVELENGTH: 587.6 nm
2. OPERATION WAVELENGTH: 1650 nm-3000 nm
3. DIAMETER TOLERANCE: +0.0/-0.1 mm
4. THICKNESS TOLERANCE: ±0.1 mm
5. FOCAL LENGTH:  $f=50.0 \text{ mm} \pm 1\%$
6. BACK FOCAL LENGTH(REF):  $bf=45.7 \text{ mm}$
7. CLEAR APERTURE:  $>90\%CA$
8. SURFACE QUALITY(S/D)(S1.S2): 40/20
9. SURFACE FLATNESS(S1):  $\lambda/2 @ 632.8 \text{ nm}$
10. SURFACE POWER(S2):  $3\lambda/2 @ 632.8 \text{ nm}$
11. SURFACE IRREGULARITY(S2):  $\lambda/4 @ 632.8 \text{ nm}$
12. CENTRATION:  $<3 \text{ arcmin}$
13. CHAMFER:  $<0.2 \text{ mm}, 45^\circ$
14. COATING(S1,S2): AR COATING  $R_{avg} <0.5\% @ 1650 \text{ nm}-3000 \text{ nm}$

	PART DESCRIPTION	MATERIAL
①	SM1-8A	ANODIZED ALUMINIUM
②	CX70610-D	CaF2
③	SM1R	ANODIZED ALUMINIUM

DRAWING PROJECTION				<h1 style="color: red; margin: 0;">LBTEK</h1>					
		NAME		DATE		MCX70610-D			
DRAWN		BSHU		Aug./12th/24		$\phi 25.4 \text{ mm}, f=50 \text{ mm}$ PLANO CONVEX LENS AR COATING 1650-3000 nm			
APPROVAL		WCHENG		Aug./12th/24		MATERIAL	WEIGHT	SCALE	REV
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES						CaF2	34.12g	2:1	B