



NOTES

1. DESIGN WAVELENGTH: 587.6 nm
2. OPERATION WAVELENGTH: 1100 nm-1650 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): $bf=48.1 \text{ mm}$
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 $R_{avg} < 0.5\% @ 1100 \text{ nm}-1650 \text{ nm}$

	PART DESCRIPTION	MATERIAL
①	SM05-8A	ANODIZED ALUMINIUM
②	CX10310-C	N-BK7
③	SM05R	ANODIZED ALUMINIUM

DRAWING PROJECTION		LBTEK				
		MCX10310-C				
		$\phi 12.7 \text{ mm}, f=50 \text{ mm}$ PLANO CONVEX LENS AR COATING 1100-1650 nm				
	NAME	DATE	MATERIAL	WEIGHT	SCALE	REV
DRAWN	BSHU	Aug./12th/24				
APPROVAL	WCHENG	Aug./12th/24				
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES			N-BK7	3.94 g	2:1	B