



NOTES

1. DESIGN WAVELENGTH: 587.6 nm
2. OPERATION WAVELENGTH: 2000 nm–5000 nm
3. DIAMETER TOLERANCE: +0.0/−0.1 mm
4. THICKNESS TOLERANCE: ±0.1 mm
5. FOCAL LENGTH: $f=75.0 \text{ mm} \pm 1\%$
6. BACK FOCAL LENGTH(REF): $bf=71.8 \text{ mm}$
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 arcmin
13. CHAMFER: <0.2 mm, 45°
14. COATING(S1,S2): $R_{avg} < 1.25\%$, $R_{abs} < 3.0\%$
 $T_{avg} > 94\%$, $T_{abs} > 90\% @ 2000 \text{ nm} - 5000 \text{ nm}$

	PART DESCRIPTION	MATERIAL
①	SM1-8A	ANODIZED ALUMINIUM
②	CX70612-E1	CaF ₂
③	SM1R	ANODIZED ALUMINIUM

DRAWING PROJECTION				<h1 style="color: red; margin: 0;">LBTEK</h1>											
		NAME		DATE		MCX70612-E1									
DRAWN		BSHU		Aug. /12th/24		$\phi 25.4 \text{ mm}, f=75 \text{ mm}$ PLANO CONVEX LENS									
APPROVAL		WCHENG		Aug. /12th/24		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>MATERIAL</td> <td>WEIGHT</td> <td>SCALE</td> <td>REV</td> </tr> <tr> <td>CaF₂</td> <td>25.99g</td> <td>2:1</td> <td>A</td> </tr> </table>		MATERIAL	WEIGHT	SCALE	REV	CaF ₂	25.99g	2:1	A
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