



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: $f=1000.0 \text{ mm} \pm 1\%$
6. BACK FOCAL LENGTH(REF): $bf=998.5 \text{ mm}$
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): $R_{avg} < 1.25\%$, $R_{abs} < 3.0\%$ $T_{avg} > 94\%$, $T_{abs} > 90\% @ 2000 \text{ nm} - 5000 \text{ nm}$

| | PART DESCRIPTION | MATERIAL |
|---|------------------|--------------------|
| ① | SM1-8A | ANODIZED ALUMINIUM |
| ② | CX70623-E1 | CaF2 |
| ③ | SM1R | ANODIZED ALUMINIUM |

| | | | | | | | | | |
|--|--|--------|--|---|--|--|--------|-------|-----|
| DRAWING PROJECTION | | | | <h1 style="color: red; margin: 0;">LBTEK</h1> | | | | | |
| | | | | | | | | | |
| | | NAME | | DATE | | MCX70623-E1 | | | |
| DRAWN | | BSHU | | Aug./12th/24 | | $\Phi 25.4 \text{ mm}, f=1000 \text{ mm}$ PLANO CONVEX LENS | | | |
| APPROVAL | | WCHENG | | Aug./12th/24 | | MATERIAL | WEIGHT | SCALE | REV |
| FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES | | | | | | CaF2 | 23.01g | 2:1 | A |