



NOTES

1. DESIGN WAVELENGTH: 587.6 nm
2. OPERATION WAVELENGTH: 400 nm-700 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):  $bf=46.6 \text{ mm}$
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  $R_{avg} < 0.5\% @ 400 \text{ nm}-700 \text{ nm}$

|   | PART DESCRIPTION | MATERIAL           |
|---|------------------|--------------------|
| 1 | SM1-8A           | ANODIZED ALUMINIUM |
| 2 | CX10510-A        | N-BK7              |
| 3 | SM1R             | ANODIZED ALUMINIUM |

|  |  |        |  |              |  |  |        |       |     |
|--|--|--------|--|--------------|--|--|--------|-------|-----|
| DRAWING PROJECTION                                     |  |        |  | <b>LBTEK</b> |  |  |        |       |     |
|  |  | NAME   |  | DATE         |  | MCX10510-A   |        |       |     |
| DRAWN  |  | BSHU   |  | Aug./12th/24 |  | ∅ 25 mm, f=50 mm<br>PLANO CONVEX LENS<br>AR COATING 400-700 nm |        |       |     |
| APPROVAL   |  | WCHENG |  | Aug./12th/24 |  | MATERIAL   | WEIGHT | SCALE | REV |
| FOR INFORMATION ONLY<br>NOT FOR MANUFACTURING PURPOSES |  |        |  |              |  | N-BK7  | 22.34g | 2:1   | B   |