



NOTES

1. DESIGN WAVELENGTH: 587.6 nm
2. OPERATION WAVELENGTH: 700 nm-1100 nm
3. DIAMETER TOLERANCE: +0.0/-0.1 mm
4. THICKNESS TOLERANCE:  $\pm 0.1$  mm
5. FOCAL LENGTH:  $f=175.6$  mm  $\pm 1\%$
6. BACK FOCAL LENGTH(REF):  $bf=173.6$  mm
7. CLEAR APERTURE:  $>90\%$ CA
8. SURFACE QUALITY(S/D)(S1, S2): 40/20
9. SURFACE FLATNESS(S1):  $\lambda/2$  @ 632.8 nm
10. SURFACE POWER(S2):  $3\lambda/2$  @ 632.8 nm
11. SURFACE IRREGULARITY(S2):  $\lambda/4$  @ 632.8 nm
12. CENTRATION:  $<3$  arcmin
13. CHAMFER:  $<0.2$  mm,  $45^\circ$
14. COATING(S1, S2): AR COATING  $R_{avg} < 0.5\%$  @ 700 nm-1100 nm

|   | PART DESCRIPTION | MATERIAL           |
|---|------------------|--------------------|
| ① | SM1-8A           | ANODIZED ALUMINIUM |
| ② | CX20616-B        | UVFS               |
| ③ | SM1R             | ANODIZED ALUMINIUM |

|  |        |              |   |        |       |     |
|--|--------|--------------|---|--------|-------|-----|
| DRAWING PROJECTION                                     |        |              | <b>LBTEK</b>  |        |       |     |
|  |        |              |   |        |       |     |
|  | NAME   | DATE         | MCX20616-B  |        |       |     |
| DRAWN  | BSHU   | Aug./12th/24 | $\phi 25.4$ mm, $f=175.6$ mm<br>PLANO CONVEX LENS<br>AR COATING 700-1100 nm |        |       |     |
| APPROVAL   | WCHENG | Aug./12th/24 | MATERIAL  | WEIGHT | SCALE | REV |
| FOR INFORMATION ONLY<br>NOT FOR MANUFACTURING PURPOSES |        |              | UVFS  | 19.04g | 2:1   | B   |