



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: $f=75.0$ mm $\pm 1\%$
6. BACK FOCAL LENGTH(REF): $bf=66.5$ 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°
14. COATING(S1,S2): AR COATING $R_{avg} < 0.5\%$ @ 400 nm-700 nm

| | PART DESCRIPTION | MATERIAL |
|---|------------------|--------------------|
| ① | SM2-16.5A | ANODIZED ALUMINIUM |
| ② | CX10812-A | N-BK7 |
| ③ | SM2R | ANODIZED ALUMINIUM |

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|--|--|--------|--|--------------|--|---|--------|-------|-----|
| DRAWING PROJECTION | | | | LBTEK | | | | | |
| | | NAME | | DATE | | MCX10812-A | | | |
| DRAWN | | BSHU | | Aug./12th/24 | | $\phi 50.8$ mm, $f=75$ mm PLANO CONVEX LENS AR COATING 400-700 nm | | | |
| APPROVAL | | WCHENG | | Aug./12th/24 | | MATERIAL | WEIGHT | SCALE | REV |
| FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES | | | | | | N-BK7 | 52.86g | 2:1 | B |