



NOTES

1. DESIGN WAVELENGTH: 587.6 nm
2. OPERATION WAVELENGTH: 1650 nm-3000 nm
3. DIAMETER TOLERANCE: +0.0/-0.1 mm
4. THICKNESS TOLERANCE: ±0.1 mm
5. FOCAL LENGTH: $f=150.0 \text{ mm} \pm 1\%$
6. BACK FOCAL LENGTH(REF): $bf=147.7 \text{ mm}$
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 $R_{avg} <0.5\% @ 1650 \text{ nm}-3000 \text{ nm}$

| | PART DESCRIPTION | MATERIAL |
|---|------------------|--------------------|
| ① | SM1-8A | ANODIZED ALUMINIUM |
| ② | CX70615-D | CaF2 |
| ③ | SM1R | ANODIZED ALUMINIUM |

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|--|--------|--------------|--|--------|-------|-----|
| DRAWING PROJECTION | | | LBTEK | | | |
| | | | | | | |
| | NAME | DATE | MCX70615-D | | | |
| DRAWN | BSHU | Aug./12th/24 | Ø25.4 mm, f=150 mm PLANO CONVEX LENS AR COATING 1650-3000 nm | | | |
| APPROVAL | WCHENG | Aug./12th/24 | MATERIAL | WEIGHT | SCALE | REV |
| FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES | | | CaF2 | 19.23g | 2:1 | B |