



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: 40.0 mm±1%
6. BACK FOCAL LENGTH(REF): 39.1 mm
7. CLEAR APERTURE: >90%CA
8. SURFACE QUALITY(S/D)(S1,S2): 40/20
9. SURFACE POWER(S2): $3\lambda/2$ @ 632.8 nm
10. SURFACE IRREGULARITY(S2): $\lambda/4$ @ 632.8 nm
11. CENTRATION: <3 arcmin
12. CHAMFER: <0.2 mm, 45°
13. COATING(S1,S2): AR COATING R_{avg} <0.5% @ 400 nm-700 nm

| | PART DESCRIPTION | MATERIAL |
|---|------------------|--------------------|
| ① | SM05-8A | ANODIZED ALUMINIUM |
| ② | BCX10309-A | N-BK7 |
| ③ | SM05R | ANODIZED ALUMINIUM |

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|--|--|--------|--|--------------|--|--|--------|-------|-----|
| DRAWING PROJECTION | | | | LBTEK | | | | | |
| | | NAME | | DATE | | MBCX10309-A | | | |
| DRAWN | | BSHU | | Aug./19th/24 | | ϕ 12.7 mm, F=40.0 mm BI-CONVEX LENS AR COATING 400-700 nm | | | |
| APPROVAL | | WCHENG | | Aug./19th/24 | | MATERIAL | WEIGHT | SCALE | REV |
| FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES | | | | | | N-BK7 | 9.12 g | 2:1 | B |