



NOTES

1. DESIGN WAVELENGTH: 486.1 nm, 587.6 nm & 656.3 nm
2. CLEAR APERTURE: >90%CA
3. OPERATION WAVELENGTH: 400 nm-700 nm
4. DIAMETER TOLERANCE: +0.0/-0.1 mm
5. THICKNESS TOLERANCE: ±0.1 mm
6. FOCAL LENGTH: 400.0 mm ±1% @ 587.6 nm
7. BACK FOCAL LENGTH(REF): 396.0 mm
8. SURFACE QUALITY(S/D)(S1,S2): 40/20
9. SURFACE POWER(S1,S2): $3\lambda/2$ @ 632.8 nm
10. SURFACE IRREGULARITY(S1,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 | SM1-8A | ANODIZED ALUMINIUM |
| ② | AD420-A | N-BK7 |
| | | SF2 |
| ③ | SM1R | ANODIZED ALUMINIUM |

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|--|--------|-------------|--|--------|-------|-----|
| DRAWING PROJECTION | | | LBTEK | | | |
| | | | | | | |
| | NAME | DATE | MAD420-A | | | |
| DRAWN | BSHU | Aug./5th/24 | ϕ 25.4 mm, F=400.0 mm ACHROMATIC DOUBLETS AR COATING 400-700 nm | | | |
| APPROVAL | WCHENG | Aug./5th/24 | MATERIAL | WEIGHT | SCALE | REV |
| FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES | | | N-BK7/SF2 | 40.62g | 2:1 | B |