



NOTES

1. DESIGN WAVELENGTH: 706.5 nm, 855.0 nm & 1015.0 nm
2. CLEAR APERTURE: >90%CA
3. OPERATION WAVELENGTH: 700 nm-1100 nm
4. DIAMETER TOLERANCE: +0.0/-0.1 mm
5. THICKNESS TOLERANCE: ±0.1 mm
6. FOCAL LENGTH: 75.0 mm ±1% @ 855.0 nm
7. BACK FOCAL LENGTH(REF): 72.0 mm
8. SURFACE QUALITY(S/D)(S1,S2): 40/20
9. SURFACE POWER(S1,S2):  $3\lambda/2 @ 632.8\text{ nm}$
10. SURFACE IRREGULARITY(S1,S2):  $\lambda/4 @ 632.8\text{ nm}$
11. CENTRATION: <3 arcmin
12. CHAMFER: <0.2 mm, 45°
13. COATING(S1,S2): AR COATING  $R_{avg} < 0.5% @ 700\text{ nm}-1100\text{ nm}$

|   | PART DESCRIPTION | MATERIAL           |
|---|------------------|--------------------|
| ① | SM05-8A          | ANODIZED ALUMINIUM |
| ② | AD312-B          | N-BAF10            |
|   |                  | N-SF6HT            |
| ③ | SM05R            | ANODIZED ALUMINIUM |

|  |        |             |                 |  |       |     |  |
|--|--------|-------------|-----------------|--|-------|-----|--|
| DRAWING PROJECTION                                     |        |             |                 | <b>LBTEK</b>   |       |     |  |
|  |        |             |                 | MAD312-B   |       |     |  |
| DRAWN  |        | BSHU        | Aug./5th/24     | $\phi 12.7\text{ mm}, F=75.0\text{ mm}$<br>ACHROMATIC DOUBLETS<br>AR COATING 700-1100 nm |       |     |  |
| APPROVAL   | WCHENG | Aug./5th/24 | MATERIAL        | WEIGHT   | SCALE | REV |  |
| FOR INFORMATION ONLY<br>NOT FOR MANUFACTURING PURPOSES |        |             | N-BAF10/N-SF6HT | 12.09g   | 2:1   | B   |  |