



NOTES

1. DESIGN WAVELENGTH: 10.6 μm
2. OPERATION WAVELENGTH: 7 μm -12 μm
3. DIAMETER TOLERANCE: +0.0/-0.1 mm
4. THICKNESS TOLERANCE: ± 0.1 mm
5. FOCAL LENGTH: $f=500$ mm $\pm 1\%$
6. BACK FOCAL LENGTH(REF): $bf=499.1$ 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): $T_{\text{avg}} \geq 97\%$, $T_{\text{abs}} \geq 92\%$,
 $R_{\text{avg}} \leq 1\%$, $R_{\text{abs}} \leq 2\%$ @ 7 μm -12 μm

DRAWING PROJECTION			LBTEK			
NAME	DATE					
DRAWN	BSHU	JUL./24th/24	$\phi 25.4$ mm, $f=500$ mm PLANO CONVEX LENS AR COATING 7 μm -12 μm			
APPROVAL	WCHENG	JUL./24th/24	MATERIAL	WEIGHT	SCALE	REV
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES			ZnSe	5.49g	2:1	A