



NOTES

1. DESIGN WAVELENGTH: 10.6  $\mu\text{m}$
2. OPERATION WAVELENGTH: 7  $\mu\text{m}$ -12  $\mu\text{m}$
3. DIAMETER TOLERANCE: +0.0/-0.1 mm
4. THICKNESS TOLERANCE:  $\pm 0.1$  mm
5. FOCAL LENGTH:  $f=149\text{ mm}\pm 1\%$
6. BACK FOCAL LENGTH(REF):  $bf=147.3\text{ mm}$
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):  $T_{\text{avg}}\geq 97\%$ ,  $T_{\text{abs}}\geq 92\%$ ,  
 $R_{\text{avg}}\leq 1\%$ ,  $R_{\text{abs}}\leq 2\% @ 7\ \mu\text{m}-12\ \mu\text{m}$

DRAWING PROJECTION			<b>LBTEK</b>			
	NAME	DATE				
DRAWN	BSHU	JUL./24th/24	$\phi 25.4\text{ mm}, f=149\text{ mm}$ PLANO CONVEX LENS AR COATING 7 $\mu\text{m}$ -12 $\mu\text{m}$			
APPROVAL	WCHENG	JUL./24th/24	MATERIAL	WEIGHT	SCALE	REV
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES			ZnSe	10.17 g	2:1	A