



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:  $f=100.2$  mm  $\pm 1\%$
6. BACK FOCAL LENGTH(REF):  $bf=98.5$  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,  $45^\circ$
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  $\mu\text{m}$

	PART DESCRIPTION	MATERIAL
①	SM1-8A	ANODIZED ALUMINIUM
②	CX90613-E3	ZNSE
③	SM1R	ANODIZED ALUMINIUM

DRAWING PROJECTION				<b>LBTEK</b>					
		NAME		DATE		MCX90613-E3			
DRAWN		BSHU		Aug./12th/24		ZNSE, D=25.4 mm, f=100.2 mm PLANO CONVEX LENS AR. 7 $\mu\text{m}$ -12 $\mu\text{m}$			
APPROVAL		WCHENG		Aug./12th/24		MATERIAL	WEIGHT	SCALE	REV
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES						ZnSe	19.78g	2:1	B