



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:  $f=50.1$  mm  $\pm 1\%$
6. BACK FOCAL LENGTH(REF):  $bf=48.2$  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	CX90610-E3	ZNSE
③	SM1R	ANODIZED ALUMINIUM

DRAWING PROJECTION			<b>LBTEK</b>			
	NAME	DATE	MCX90610-E3			
DRAWN	BSHU	Aug./12th/24	ZNSE, D=25.4 mm, f=50.1 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	19.63g	2:1	B