



NOTES

1. DESIGN WAVELENGTH: 10.6 μm
2. OPERATION WAVELENGTH: 4.5 μm -7.5 μm
3. DIAMETER TOLERANCE: +0.0/-0.1 mm
4. THICKNESS TOLERANCE: ± 0.1 mm
5. FOCAL LENGTH: $f=75.0$ mm $\pm 1\%$
6. BACK FOCAL LENGTH(REF): $bf=73.0$ 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(S1S2): $T_{\text{avg}} \geq 97\%$, $T_{\text{abs}} \geq 94\%$, $R_{\text{avg}} \leq 1\%$, $R_{\text{abs}} \leq 2\%$ @ 4.5 μm -7.5 μm

	PART DESCRIPTION	MATERIAL
①	SM1-8A	ANODIZED ALUMINIUM
②	CX90612-E2	ZNSE
③	SM1R	ANODIZED ALUMINIUM

DRAWING PROJECTION				LBTEK			
	NAME	DATE	MCX90612-E2				
DRAWN	BSHU	Aug./12th/24	ZNSE, D=25.4 mm, f=75.0 mm PLANO CONVEX LENS				
APPROVAL	WCHENG	Aug./12th/24	MATERIAL	WEIGHT	SCALE	REV	
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES			ZnSe	19.73g	2:1	A	