



IR 抛光氟化钙 CaF₂ 平凹 负透镜 (直径 25mm 焦距 -150mm)



描述

氟化钙在紫外到中红外 (250nm~7um) 之间都有很高的透射率, 所以广泛被用于制造棱镜, 透镜, 窗片, 氟化钙透镜具有低折射率, 高激光损伤阈值, 低同轴与径向应力双折射特性, 适合于准分子激光器使用, 或者集成于红外系统上。且氟化钙也备有低可溶性, 也可抵抗恶劣环境。氟化钙的抛光面可以工作数年之久, 氟化钙的硬度是氟化钡的两倍, 而且抗热冲击能力更强。

产品特点

透射波长范围广, 低折射率, 高透射率, 高损伤阈值, 低可溶性

产品型号

CAF25LENS-150



应用领域

中红外QCL激光器

中红外激光光路搭建

核心参数

规格尺寸	焦距F.L.	曲率	透镜等级
25mm	-150mm @ 5μm	-59.85 (±2%)	IR 平凹

详细参数

名称	参数
透射范围	0.13~10um
折射率	1.39908 at 5um
反射损耗	5.4% at 5um
吸收系数	$7.8\times10^{-4}\text{cm}^{-1}$ @2.7um
吸收峰	35um
dn/dT	$-10.6\times10^{-6}/^{\circ}\text{C}$
dn/du=0	dn/du=0
密度	3.18g/cc

熔点	1360℃
导热率	9.71Wm ⁻¹ K ⁻¹
热膨胀	18.85×10 ⁻⁶ /℃
硬度	Knoop 158.3
比热容	854J Kg ⁻¹ K ⁻¹
介电常数	6.76 at 1MHz
杨氏模量	75.8GPa
剪切模量	33.77GPa
体积模量	82.71GPa
弹性系数	C ₁₁ =164 ,C ₁₂ =53 ,C ₄₄ =33.7
表现弹性极限	36.54MPa
泊松比	0.26
溶解度	0.0017g/100g with, 20 °C
分子量	78.08

类型/结构	立方裂解
反射损耗	5.4% at 5um

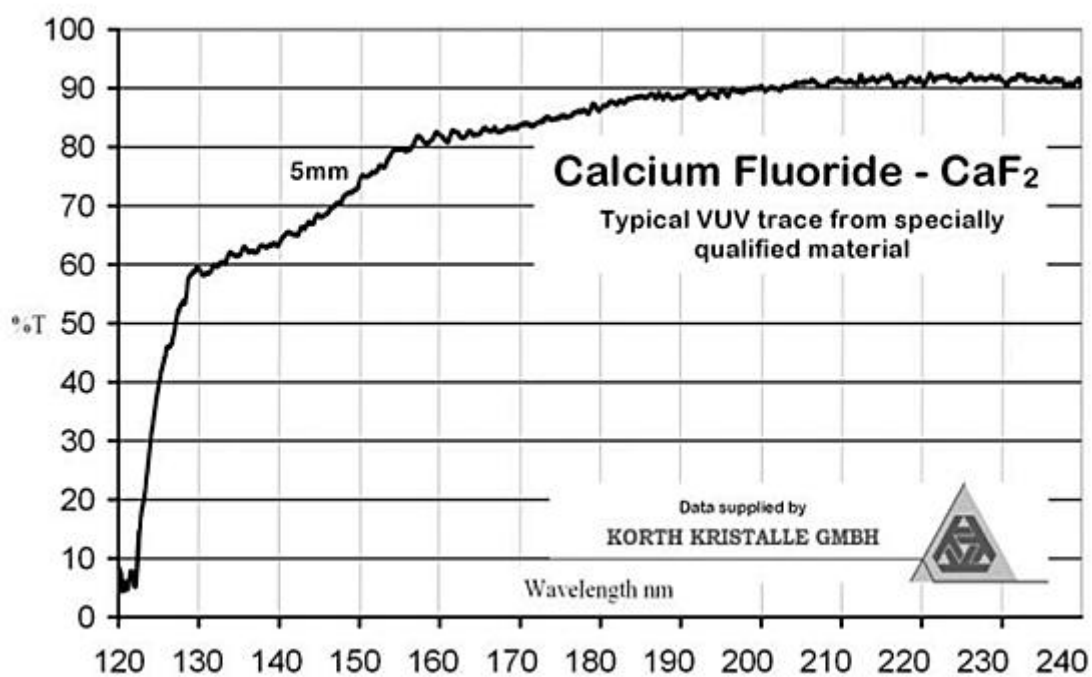
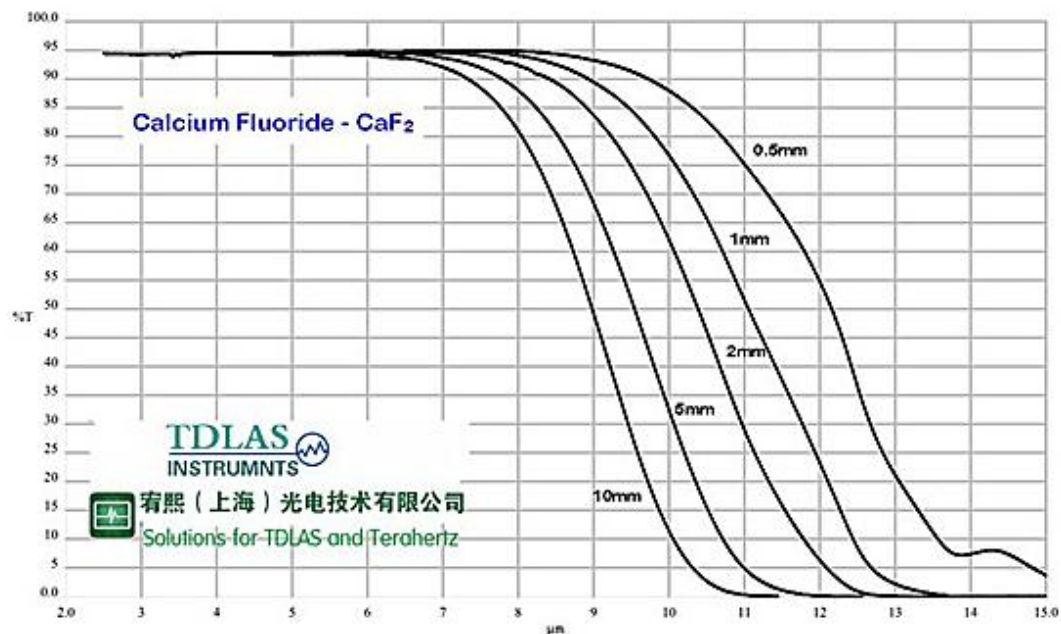
折射率:(No=Ordinary Ray 普通射线)

um	No	um	No	um	No
0.54	2.6754	0.58	2.6312	0.62	2.5994
0.66	2.5755	0.7	2.5568	0.74	2.5418
0.78	2.5295	0.82	2.5193	0.86	2.5107
0.90	2.5034	0.94	2.4971	0.98	2.4916
1.0	2.4892	1.4	2.4609	1.8	2.4496
2.2	2.4437	2.6	2.4401	3.0	2.4376
3.4	2.4356	3.8	2.4339	4.2	2.4324
4.6	2.4309	5.0	2.4295	5.4	2.4281
5.8	2.4266	6.2	2.4251	6.6	2.4235
7.0	2.4218	7.4	2.4201	7.8	2.4183

8.2	2.4163	8.6	2.4143	9.0	2.4122
9.4	2.4100	9.8	2.4077	10.2	2.4053
10.6	2.4028	11.0	2.4001	11.4	2.3974
11.8	2.3945	12.2	2.3915	12.6	2.3883
13.0	2.3850	13.4	2.3816	13.8	2.3781
14.2	2.3744	14.6	2.3705	15.0	2.3665
15.4	2.3623	15.8	2.3579	16.2	2.3534
16.6	2.3487	17.0	2.3438	17.4	2.3387
17.8	2.3333	18.2	2.3278		

特性曲线

光谱透射图



订购信息

订购型号	规格	曲率	焦距	CaF2 等级	参数															
CAF12.7L ENS10U	12.7mm Ø	10.16 (±2%)	10mm @ 300nm	UV 双凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 25mm Ø X 300mm F.L. @ 5µm MATERIAL: IR Grade CaF₂ Diameter: 25.0mm (±0.1mm) Centre Thickness: 2.6mm (±0.1mm) Radius of Curvature 1: 120 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 2.0mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>277mm</td><td>276mm</td><td>0.633µm</td></tr><tr><td>280mm</td><td>278mm</td><td>1.064µm</td></tr><tr><td>287mm</td><td>286mm</td><td>3.0µm</td></tr><tr><td>300mm</td><td>299mm</td><td>5.0µm</td></tr></table> Paraxial F.L. Tolerances ±2% to nearest mm EFL from this lens formula. BFL is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	277mm	276mm	0.633µm	280mm	278mm	1.064µm	287mm	286mm	3.0µm	300mm	299mm	5.0µm
Effective F.L.	Back F.L.	Wavelength																		
277mm	276mm	0.633µm																		
280mm	278mm	1.064µm																		
287mm	286mm	3.0µm																		
300mm	299mm	5.0µm																		
CAF12.7L ENS12	12.7mm Ø	12.0 (±2%)	12.7mm @ 5µm	IR 双凸	CALCIUM FLUORIDE BI-CONVEX LENS 12.7mm Ø X 12.7mm F.L. @ 0.633µm MATERIAL: IR Grade CaF₂ Diameter: 12.7mm (+0.0/-0.127mm) Centre Thickness: 6.0mm (±0.127mm) Radius of Curvature 1: 12.0 (±2%) Radius of Curvature 2: 12.0 (±2%) S/D: 60/40 Edge thickness: 1.5mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>15.0mm</td><td>12.7mm</td><td>0.633µm</td></tr><tr><td>15.5mm</td><td>13.2mm</td><td>3.0µm</td></tr><tr><td>16.2mm</td><td>13.9mm</td><td>5.0µm</td></tr></table> Paraxial F.L. Tolerances ±2% to nearest mm EFL from this lens formula. BFL is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	15.0mm	12.7mm	0.633µm	15.5mm	13.2mm	3.0µm	16.2mm	13.9mm	5.0µm			
Effective F.L.	Back F.L.	Wavelength																		
15.0mm	12.7mm	0.633µm																		
15.5mm	13.2mm	3.0µm																		
16.2mm	13.9mm	5.0µm																		
CAF12.7L ENS12U	12.7mm Ø	12.0 (±2%)	12mm @ 300nm	UV 双凸																
CAF12.7L ENS100	12.7mm Ø	40.32 (±2%)	100mm @ 5µm	IR 平凸	CALCIUM FLUORIDE BI-CONVEX LENS 25mm Ø X 100mm F.L. @ 5µm MATERIAL: IR Grade CaF₂ Diameter: 25.0mm (±0.1mm) Centre Thickness: 4.0mm (±0.1mm) Radius of Curvature 1: 78.94 (±2%) Radius of Curvature 2: 78.94 (±2%) S/D: 60/40 Edge thickness: 2.0mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>92mm</td><td>90mm</td><td>0.633µm</td></tr><tr><td>93mm</td><td>91mm</td><td>1.064µm</td></tr><tr><td>95mm</td><td>94mm</td><td>3.0µm</td></tr><tr><td>100mm</td><td>98mm</td><td>5.0µm</td></tr></table> Paraxial F.L. Tolerances ±2% to nearest mm EFL from this lens formula. BFL is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	92mm	90mm	0.633µm	93mm	91mm	1.064µm	95mm	94mm	3.0µm	100mm	98mm	5.0µm
Effective F.L.	Back F.L.	Wavelength																		
92mm	90mm	0.633µm																		
93mm	91mm	1.064µm																		
95mm	94mm	3.0µm																		
100mm	98mm	5.0µm																		

CAF16LE NS90	16.0mm Ø	73.90 (±2%)	90mm @ 3µm	IR 双凸	CALCIUM FLUORIDE BI-CONVEX LENS 16mm Ø X 90mm F.L. @ 3µm MATERIAL: IR Grade CaF₂ Diameter:16.0mm (±0.1mm) Centre Thickness:3.0mm (±0.1mm) Radius of Curvature 1:73.90 (±2%) Radius of Curvature 2:73.90 (±2%) S/D:60/40 Edge thickness:2.0mm (derived) Effective F.L. 86mm 86mm 89mm 93mm Back F.L. 85mm 85mm 88mm 92mm Wavelength 0.633µm 1.064µm 3.0µm 5.0µm Parallel F.L. Tolerances ±0% to nearest mm EFL from thin lens formula. BFL is referenced from the lens surface.
CAF18.5L ENS26	18.5mm Ø	12.6 (±2%)	26mm @ 3µm	IR 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 18.5mm Ø X 26mm F.L. @ 3µm MATERIAL: IR Grade CaF₂ Diameter:18.7mm (±0.25mm) Centre Thickness:5.0mm (±0.2mm) Centration3 Arc Minutes Radius of Curvature 1:12.6 (±2%) Radius of Curvature 2:Plano S/D:60/40 Edge thickness:1.0mm (derived) Effective F.L. 29.1mm 30.2mm 31.6mm Back F.L. 26.6mm 26.6mm 28.0mm Wavelength 0.633µm 3.0µm 5.0µm Parallel F.L. Tolerances ±0% to nearest mm EFL from thin lens formula. BFL is referenced from the lens surface.
CAF20LE NS50	20mm Ø	19.95 (±2%)	50mm @ 5µm	IR 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 20mm Ø x 50mm F.L. @ 5µm MATERIAL: IR Grade CaF₂ Diameter:20.0mm (±0.1mm) Centre Thickness:4.0mm (±0.1mm) Radius of Curvature 1:19.95 (±2%) Radius of Curvature 2:Plano S/D:60/40 Edge thickness:1.3mm (derived) Effective F.L. 46mm 47mm 48mm 50mm Back F.L. 43mm 44mm 45mm 47mm Wavelength 0.633µm 1.064µm 3.0µm 5.0µm Parallel F.L. Tolerances ±0% to nearest mm EFL from thin lens formula. BFL is referenced from the back lens surface.
CAF25LE NS25U	25mm Ø	21.53 (±2%)	25mm @ 350nm	UV 双凸	CALCIUM FLUORIDE BI-CONVEX LENS 25mm Ø X 25mm F.L. @ 0.35µm MATERIAL: UV Grade CaF₂ Diameter:25.0mm (+0.0/-0.1mm) Centre Thickness:10mm (±0.1mm) Radius of Curvature 1:21.53 (±2%) Radius of Curvature 2:21.53 (±2%) S/D:60/40 Edge thickness:2.0mm (derived) Effective F.L. 26.0mm 26.8mm Pr Plane F.L. 25.0mm Back F.L. 22.2mm 23.0mm Wavelength 0.35µm 0.633µm Parallel F.L. Tolerances ±0% EFL from thin lens formula. BFL is referenced from the lens surface.

CAF25LE NS25	25mm Ø	20.80 (±2%)	25.4mm @ 3µm	IR 双凸	CALCIUM FLUORIDE BI-CONVEX LENS 25mm Ø X 25.4mm F.L. @ 3µm MATERIAL: IR Grade CaF₂ Diameter: 25.0mm (+0.0/-0.1mm) Centre Thickness: 10mm (±0.1mm) Radius of Curvature 1: 20.80 (±2%) Radius of Curvature 2: 20.80 (±2%) S/D: 60/40 Edge thickness: 1.6mm (derived) <table><tr><td>Effective F.L.</td><td>Pr. Plane F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>25.9mm</td><td></td><td>22.2mm</td><td>0.633µm</td></tr><tr><td>26.2mm</td><td></td><td>22.4mm</td><td>1.064µm</td></tr><tr><td>26.8mm</td><td>25.4mm</td><td>23.0mm</td><td>3.0µm</td></tr><tr><td>28.0mm</td><td></td><td>24.1mm</td><td>5.0µm</td></tr></table> Parallel F.L. Tolerances ±0% EFL from the lens formula. BFL is referenced from the back lens surface.	Effective F.L.	Pr. Plane F.L.	Back F.L.	Wavelength	25.9mm		22.2mm	0.633µm	26.2mm		22.4mm	1.064µm	26.8mm	25.4mm	23.0mm	3.0µm	28.0mm		24.1mm	5.0µm
Effective F.L.	Pr. Plane F.L.	Back F.L.	Wavelength																						
25.9mm		22.2mm	0.633µm																						
26.2mm		22.4mm	1.064µm																						
26.8mm	25.4mm	23.0mm	3.0µm																						
28.0mm		24.1mm	5.0µm																						
CAF25LE NS50B	25mm Ø	39.1 (±2%)	50mm @ 5µm	IR 双凸																					
CAF25LE NS50	25mm Ø	20.9 (±2%)	50mm @ 5µm	IR 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 25mm Ø x 50mm F.L. @ 3µm MATERIAL: IR Grade CaF₂ Diameter: 25.0mm (±0.1mm) Centre Thickness: 6.1mm (±0.1mm) Radius of Curvature 1: 20.9 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 2.0mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>48mm</td><td>44mm</td><td>0.633µm</td></tr><tr><td>49mm</td><td>45mm</td><td>1.064µm</td></tr><tr><td>50mm</td><td>45mm</td><td>3.0µm</td></tr><tr><td>52mm</td><td>48mm</td><td>5.0µm</td></tr></table> Parallel F.L. Tolerances ±0% to nearest mm EFL from the lens formula. BFL is referenced from the back lens surface.	Effective F.L.	Back F.L.	Wavelength	48mm	44mm	0.633µm	49mm	45mm	1.064µm	50mm	45mm	3.0µm	52mm	48mm	5.0µm					
Effective F.L.	Back F.L.	Wavelength																							
48mm	44mm	0.633µm																							
49mm	45mm	1.064µm																							
50mm	45mm	3.0µm																							
52mm	48mm	5.0µm																							
CAF25LE NS50U	25mm Ø	22.96 (±2%)	50mm @ 350nm	UV 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 25mm Ø x 50mm F.L. @ 0.35µm MATERIAL: UV Grade CaF₂ Diameter: 25.0mm (±0.1mm) Centre Thickness: 5.7mm (±0.1mm) Radius of Curvature 1: 22.96mm (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 2.0mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>51mm</td><td>47mm</td><td>0.35 µm</td></tr><tr><td>53mm</td><td>49mm</td><td>0.633µm</td></tr><tr><td>54mm</td><td>49mm</td><td>1.064µm</td></tr><tr><td>55mm</td><td>51mm</td><td>3.0µm</td></tr><tr><td>57mm</td><td>53mm</td><td>5.0µm</td></tr></table> Parallel F.L. Tolerances ±0% to nearest mm EFL from the lens formula. BFL is referenced from the back lens surface.	Effective F.L.	Back F.L.	Wavelength	51mm	47mm	0.35 µm	53mm	49mm	0.633µm	54mm	49mm	1.064µm	55mm	51mm	3.0µm	57mm	53mm	5.0µm		
Effective F.L.	Back F.L.	Wavelength																							
51mm	47mm	0.35 µm																							
53mm	49mm	0.633µm																							
54mm	49mm	1.064µm																							
55mm	51mm	3.0µm																							
57mm	53mm	5.0µm																							
CAF25LE NS75	25mm Ø	31.35 (±2%)	75mm @ 5µm	IR 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 25mm Ø x 75mm F.L. @ 5µm MATERIAL: IR Grade CaF₂ Diameter: 25.0mm (±0.1mm) Centre Thickness: 4.6mm (±0.1mm) Radius of Curvature 1: 31.35 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 2.0mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>72mm</td><td>69mm</td><td>0.633µm</td></tr><tr><td>73mm</td><td>70mm</td><td>1.064µm</td></tr><tr><td>75mm</td><td>72mm</td><td>3.0µm</td></tr><tr><td>78mm</td><td>75mm</td><td>5.0µm</td></tr></table> Parallel F.L. Tolerances ±0% to nearest mm EFL from the lens formula. BFL is referenced from the back lens surface.	Effective F.L.	Back F.L.	Wavelength	72mm	69mm	0.633µm	73mm	70mm	1.064µm	75mm	72mm	3.0µm	78mm	75mm	5.0µm					
Effective F.L.	Back F.L.	Wavelength																							
72mm	69mm	0.633µm																							
73mm	70mm	1.064µm																							
75mm	72mm	3.0µm																							
78mm	75mm	5.0µm																							

CAF25LE NS100B	25mm Ø	78.94 (±2%)	100mm @ 3µm	IR 双凸	CALCIUM FLUORIDE BI-CONVEX LENS 25mm Ø X 100mm F.L. @ 5µm MATERIAL: IR Grade CaF₂ Diameter: 25.0mm (±0.1mm) Centre Thickness: 4.0mm (±0.1mm) Radius of Curvature 1: 78.94 (±2%) Radius of Curvature 2: 78.94 (±2%) S/D: 60/40 Edge thickness: 2.0mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>92mm</td><td>90mm</td><td>0.633µm</td></tr><tr><td>93mm</td><td>91mm</td><td>1.064µm</td></tr><tr><td>95mm</td><td>94mm</td><td>3.0µm</td></tr><tr><td>100mm</td><td>98mm</td><td>5.0µm</td></tr></table> Paraxial F.L. Tolerances ±2% to nearest mm EFL from this lens formula. BFL is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	92mm	90mm	0.633µm	93mm	91mm	1.064µm	95mm	94mm	3.0µm	100mm	98mm	5.0µm
Effective F.L.	Back F.L.	Wavelength																		
92mm	90mm	0.633µm																		
93mm	91mm	1.064µm																		
95mm	94mm	3.0µm																		
100mm	98mm	5.0µm																		
CAF25LE NS100	25mm Ø	43.73 (±2%)	100mm @ 3µm	IR 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 50mm Ø X 100mm F.L. @ 1µm MATERIAL: IR Grade CaF₂ Diameter: 50.0mm (±0.1mm) Centre Thickness: 10.0mm (±0.1mm) Radius of Curvature 1: 43.0 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 2.0mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>99mm</td><td>92mm</td><td>0.633µm</td></tr><tr><td>100mm</td><td>93mm</td><td>1.064µm</td></tr><tr><td>103mm</td><td>96mm</td><td>3.0µm</td></tr><tr><td>108mm</td><td>101mm</td><td>5.0µm</td></tr></table> Paraxial F.L. Tolerances ±2% to nearest mm EFL from this lens formula. BFL is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	99mm	92mm	0.633µm	100mm	93mm	1.064µm	103mm	96mm	3.0µm	108mm	101mm	5.0µm
Effective F.L.	Back F.L.	Wavelength																		
99mm	92mm	0.633µm																		
100mm	93mm	1.064µm																		
103mm	96mm	3.0µm																		
108mm	101mm	5.0µm																		
CAF25LE NS100U	25mm Ø	43.73 (±2%)	100mm @ 350nm	UV 平凸																
CAF25LE NS130	25mm Ø	55.35 (±2%)	130mm @ 3µm	IR 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 25mm Ø X 130mm F.L. @ 3µm MATERIAL: IR Grade CaF₂ Diameter: 25.0mm (±0.1mm) Centre Thickness: 3.0mm (±0.1mm) Radius of Curvature 1: 55.35 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 1.5mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>128mm</td><td>126mm</td><td>0.633µm</td></tr><tr><td>129mm</td><td>126mm</td><td>1.064µm</td></tr><tr><td>133mm</td><td>130mm</td><td>3.0µm</td></tr><tr><td>139mm</td><td>136mm</td><td>5.0µm</td></tr></table> Paraxial F.L. Tolerances ±2% to nearest mm EFL from this lens formula. BFL is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	128mm	126mm	0.633µm	129mm	126mm	1.064µm	133mm	130mm	3.0µm	139mm	136mm	5.0µm
Effective F.L.	Back F.L.	Wavelength																		
128mm	126mm	0.633µm																		
129mm	126mm	1.064µm																		
133mm	130mm	3.0µm																		
139mm	136mm	5.0µm																		
CAF25LE NS150	25mm Ø	61.0 (±2%)	150mm @ 5µm	IR 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 25mm Ø X 150mm F.L. @ 5µm MATERIAL: IR Grade CaF₂ Diameter: 25.0mm (±0.1mm) Centre Thickness: 3.3mm (±0.1mm) Radius of Curvature 1: 61.0 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 2.0mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>141mm</td><td>139mm</td><td>0.633µm</td></tr><tr><td>142mm</td><td>140mm</td><td>1.064µm</td></tr><tr><td>146mm</td><td>144mm</td><td>3.0µm</td></tr><tr><td>152mm</td><td>150mm</td><td>5.0µm</td></tr></table> Paraxial F.L. Tolerances ±2% to nearest mm EFL from this lens formula. BFL is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	141mm	139mm	0.633µm	142mm	140mm	1.064µm	146mm	144mm	3.0µm	152mm	150mm	5.0µm
Effective F.L.	Back F.L.	Wavelength																		
141mm	139mm	0.633µm																		
142mm	140mm	1.064µm																		
146mm	144mm	3.0µm																		
152mm	150mm	5.0µm																		

CAF25LE NS150U	25mm Ø	69.75 (±2%)	150mm @ 350nm	UV 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 25mm Ø X 150mm F.L. @ 350nm MATERIAL: UV Grade CaF₂ Diameter: 25.0mm (±0.1mm) Centre Thickness: 3.1mm (±0.1mm) Radius of Curvature 1: 69.75 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 2.0mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>156mm</td><td>154mm</td><td>0.350µm</td></tr><tr><td>161mm</td><td>159mm</td><td>0.633µm</td></tr><tr><td>163mm</td><td>161mm</td><td>1.064µm</td></tr><tr><td>167mm</td><td>165mm</td><td>3.0µm</td></tr><tr><td>175mm</td><td>173mm</td><td>5.0µm</td></tr></table> Parallel F.L. Tolerances ±0% to nearest mm Effective F.L. from this lens formula. Back F.L. is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	156mm	154mm	0.350µm	161mm	159mm	0.633µm	163mm	161mm	1.064µm	167mm	165mm	3.0µm	175mm	173mm	5.0µm
Effective F.L.	Back F.L.	Wavelength																					
156mm	154mm	0.350µm																					
161mm	159mm	0.633µm																					
163mm	161mm	1.064µm																					
167mm	165mm	3.0µm																					
175mm	173mm	5.0µm																					
CAF25LE NS200U	25mm Ø	90.39 (±2%)	200mm @ 350nm	UV 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 25mm Ø X 200mm F.L. @ 350nm MATERIAL: UV Grade CaF₂ Diameter: 25.0mm (±0.1mm) Centre Thickness: 2.9mm (±0.1mm) Radius of Curvature 1: 90.39 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 2.0mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>202mm</td><td>200mm</td><td>0.350µm</td></tr><tr><td>209mm</td><td>207mm</td><td>0.633µm</td></tr><tr><td>210mm</td><td>209mm</td><td>1.064µm</td></tr><tr><td>217mm</td><td>214mm</td><td>3.0µm</td></tr><tr><td>226mm</td><td>224mm</td><td>5.0µm</td></tr></table> Parallel F.L. Tolerances ±0% to nearest mm Effective F.L. from this lens formula. Back F.L. is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	202mm	200mm	0.350µm	209mm	207mm	0.633µm	210mm	209mm	1.064µm	217mm	214mm	3.0µm	226mm	224mm	5.0µm
Effective F.L.	Back F.L.	Wavelength																					
202mm	200mm	0.350µm																					
209mm	207mm	0.633µm																					
210mm	209mm	1.064µm																					
217mm	214mm	3.0µm																					
226mm	224mm	5.0µm																					
CAF25LE NS300	25mm Ø	120.0 (±2%)	300mm @ 5µm	IR 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 25mm Ø X 300mm F.L. @ 5µm MATERIAL: IR Grade CaF₂ Diameter: 25.0mm (±0.1mm) Centre Thickness: 2.6mm (±0.1mm) Radius of Curvature 1: 120 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 2.0mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>277mm</td><td>276mm</td><td>0.633µm</td></tr><tr><td>280mm</td><td>278mm</td><td>1.064µm</td></tr><tr><td>287mm</td><td>286mm</td><td>3.0µm</td></tr><tr><td>300mm</td><td>299mm</td><td>5.0µm</td></tr></table> Parallel F.L. Tolerances ±0% to nearest mm Effective F.L. from this lens formula. Back F.L. is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	277mm	276mm	0.633µm	280mm	278mm	1.064µm	287mm	286mm	3.0µm	300mm	299mm	5.0µm			
Effective F.L.	Back F.L.	Wavelength																					
277mm	276mm	0.633µm																					
280mm	278mm	1.064µm																					
287mm	286mm	3.0µm																					
300mm	299mm	5.0µm																					
CAF25LE NS500	25mm Ø	202.02 (±2%)	500mm @ 5µm	IR 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 25mm Ø X 500mm F.L. @ 5µm MATERIAL: IR Grade CaF₂ Diameter: 25.0mm (±0.1mm) Centre Thickness: 2.4mm (±0.1mm) Radius of Curvature 1: 202 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 2.0mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>467mm</td><td>465mm</td><td>0.633µm</td></tr><tr><td>471mm</td><td>469mm</td><td>1.064µm</td></tr><tr><td>483mm</td><td>482mm</td><td>3.0µm</td></tr><tr><td>506mm</td><td>504mm</td><td>5.0µm</td></tr></table> Parallel F.L. Tolerances ±0% to nearest mm Effective F.L. from this lens formula. Back F.L. is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	467mm	465mm	0.633µm	471mm	469mm	1.064µm	483mm	482mm	3.0µm	506mm	504mm	5.0µm			
Effective F.L.	Back F.L.	Wavelength																					
467mm	465mm	0.633µm																					
471mm	469mm	1.064µm																					
483mm	482mm	3.0µm																					
506mm	504mm	5.0µm																					

CAF25.4L ENS200	25.4mm Ø	80.7 (±2%)	200mm @ 5µm	IR 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 25.4mm Ø X 200mm F.L. @ 5µm MATERIAL: IR Grade CaF₂ Diameter: 25.4mm (+0.0 / -0.127mm) Centre Thickness: 2.64mm (±0.127mm) Radius of Curvature 1: 80.7 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 1.65mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>167mm</td><td>185mm</td><td>0.633µm</td></tr><tr><td>188mm</td><td>186mm</td><td>1.064µm</td></tr><tr><td>193mm</td><td>191mm</td><td>3.0µm</td></tr><tr><td>202mm</td><td>200mm</td><td>5.0µm</td></tr></table> Paraxial F.L. Tolerances ±0% to nearest mm EFL from thin lens formula. BFL is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	167mm	185mm	0.633µm	188mm	186mm	1.064µm	193mm	191mm	3.0µm	202mm	200mm	5.0µm
Effective F.L.	Back F.L.	Wavelength																		
167mm	185mm	0.633µm																		
188mm	186mm	1.064µm																		
193mm	191mm	3.0µm																		
202mm	200mm	5.0µm																		
CAF27LE NS50	27mm Ø	43.10 (±2%)	50mm @ 3µm	IR 双凸	CALCIUM FLUORIDE BI-CONVEX LENS 27mm Ø X 50mm F.L. @ 3µm MATERIAL: IR Grade CaF₂ Diameter: 27.0mm (±0.1mm) Centre Thickness: 6.4mm (±0.1mm) Radius of Curvature 1: 43.10 (±2%) Radius of Curvature 2: 43.10 (±2%) S/D: 60/40 Edge thickness: 2.1mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>51mm</td><td>48.7mm</td><td>0.633µm</td></tr><tr><td>51mm</td><td>49.2mm</td><td>1.064µm</td></tr><tr><td>53mm</td><td>50.5mm</td><td>3.0µm</td></tr><tr><td>55mm</td><td>52.8mm</td><td>5.0µm</td></tr></table> Paraxial F.L. Tolerances ±0% to nearest mm EFL from thin lens formula. BFL is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	51mm	48.7mm	0.633µm	51mm	49.2mm	1.064µm	53mm	50.5mm	3.0µm	55mm	52.8mm	5.0µm
Effective F.L.	Back F.L.	Wavelength																		
51mm	48.7mm	0.633µm																		
51mm	49.2mm	1.064µm																		
53mm	50.5mm	3.0µm																		
55mm	52.8mm	5.0µm																		
CAF30LE NS70	30mm Ø	57.00 (±2%)	70mm @ 4µm	IR 双凸	CALCIUM FLUORIDE BI-CONVEX LENS 30mm Ø X 70mm F.L. @ 5µm MATERIAL: IR Grade CaF₂ Diameter: 30.0mm (±0.1mm) Centre Thickness: 6.0mm (±0.1mm) Radius of Curvature 1: 57.0 (±2%) Radius of Curvature 2: 57.0 (±2%) S/D: 60/40 Edge thickness: 2.0mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>67mm</td><td>65mm</td><td>0.633µm</td></tr><tr><td>67mm</td><td>65mm</td><td>1.064µm</td></tr><tr><td>69mm</td><td>67mm</td><td>3.0µm</td></tr><tr><td>72mm</td><td>70mm</td><td>5.0µm</td></tr></table> Paraxial F.L. Tolerances ±0% to nearest mm EFL from thin lens formula. BFL is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	67mm	65mm	0.633µm	67mm	65mm	1.064µm	69mm	67mm	3.0µm	72mm	70mm	5.0µm
Effective F.L.	Back F.L.	Wavelength																		
67mm	65mm	0.633µm																		
67mm	65mm	1.064µm																		
69mm	67mm	3.0µm																		
72mm	70mm	5.0µm																		
CAF31.5L ENS60	31.5mm Ø	27.50 (±2%)	60mm @ 3µm	IR 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 31.5mm Ø X 60mm F.L. @ 3µm MATERIAL: IR Grade CaF₂ Diameter: 31.5mm (±0.1mm) Centre Thickness: 6.8mm (±0.1mm) Radius of Curvature 1: 27.5 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 1.8mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>64mm</td><td>59mm</td><td>0.633µm</td></tr><tr><td>64mm</td><td>59mm</td><td>1.064µm</td></tr><tr><td>65mm</td><td>61mm</td><td>3.0µm</td></tr><tr><td>69mm</td><td>64mm</td><td>5.0µm</td></tr></table> Paraxial F.L. Tolerances ±0% to nearest mm EFL from thin lens formula. BFL is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	64mm	59mm	0.633µm	64mm	59mm	1.064µm	65mm	61mm	3.0µm	69mm	64mm	5.0µm
Effective F.L.	Back F.L.	Wavelength																		
64mm	59mm	0.633µm																		
64mm	59mm	1.064µm																		
65mm	61mm	3.0µm																		
69mm	64mm	5.0µm																		

CAF38.1L ENS75	38.1mm Ø	33.84 (±2%)	75mm @ 4.5µm	IR 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 38.1mm Ø X 75mm F.L. @ 3µm MATERIAL: IR Grade CaF₂ Diameter:38.1mm (±0.1mm) Centre Thickness:9.0mm (±0.1mm) Radius of Curvature 1:33.84 (±2%) Radius of Curvature 2:Plano S/D:60/40 Edge thickness:3.1mm (derived) Effective F.L.78mm Back F.L.72mm Wavelength0.633µm 79mm 73mm 1.064µm 81mm 75mm 3.0µm 85mm 78mm 5.0µm Parallel F.L. Tolerances ±2% to nearest mm EFL from this lens formula. BFL is referenced from the lens surface.
CAF38.1L ENS75U	38.1mm Ø	33.84 (±2%)	66mm @ 248nm	UV 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 38.1mm Ø X 75mm F.L. @ 3µm* MATERIAL: UV Grade CaF₂ Diameter:38.1mm (±0.1mm) Centre Thickness:9.0mm (±0.1mm) Radius of Curvature 1:33.84 (±2%) Radius of Curvature 2:Plano S/D:60/40 Edge thickness:3.1mm (derived) Effective F.L.72mm Back F.L.66mm Wavelength0.248µm 78mm 72mm 0.633µm 79mm 73mm 1.064µm 81mm 75mm 3.0µm 85mm 78mm 5.0µm Parallel F.L. Tolerances ±2% to nearest mm EFL from this lens formula. BFL is referenced from the lens surface.
CAF38.1L ENS160	38.1mm Ø	68.16 (±2%)	160mm @ 3µm	IR 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 38.1mm Ø X 160mm F.L. @ 3µm MATERIAL: IR Grade CaF₂ Diameter:38.1mm (+0.1 / -0.2mm) Centre Thickness:4.5mm (±0.1mm) Radius of Curvature 1:68.16 (±2%) Radius of Curvature 2:Plano S/D:60/40 Edge thickness:1.8mm (derived) Effective F.L.157mm Back F.L.154mm Wavelength0.633µm 159mm 156mm 1.064µm 163mm 160mm 3.0µm 171mm 167mm 5.0µm Parallel F.L. Tolerances ±2% to nearest mm EFL from this lens formula. BFL is referenced from the lens surface.
CAF38.1L ENS250U	38.1mm Ø	100 (±2%)	215mm @ 248nm	UV 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 38.1mm Ø X 250mm F.L. @ 5µm MATERIAL: UV Grade CaF₂ Diameter:38.1mm (±0.1mm) Centre Thickness:3.8mm (±0.1mm) Radius of Curvature 1:100.0 (±2%) Radius of Curvature 2:Plano S/D:60/40 Edge thickness:2.0mm (derived) Effective F.L.213mm Back F.L.211mm Wavelength0.248µm 231mm 229mm 0.633µm 233mm 231mm 1.064µm 240mm 237mm 3.0µm 250mm 247mm 5.0µm Parallel F.L. Tolerances ±2% to nearest mm EFL from this lens formula. BFL is referenced from the lens surface.

CAF38.1L ENS475	38.1mm Ø	190.35 (±2%)	475mm @ 5µm	IR 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 38.1mm Ø X 475mm F.L. @ 5µm MATERIAL: IR Grade CaF₂ Diameter: 38.1mm (+0.05 / -0.0mm) Centre Thickness: 4.0mm (±0.1mm) Radius of Curvature 1: 190.35 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 3.0mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>440mm</td><td>437mm</td><td>0.633µm</td></tr><tr><td>444mm</td><td>442mm</td><td>1.064µm</td></tr><tr><td>459mm</td><td>453mm</td><td>3.0µm</td></tr><tr><td>477mm</td><td>474mm</td><td>5.0µm</td></tr></table> Parallel F.L. Tolerances ±2% to nearest mm EPF, from the lens formula. BFL is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	440mm	437mm	0.633µm	444mm	442mm	1.064µm	459mm	453mm	3.0µm	477mm	474mm	5.0µm
Effective F.L.	Back F.L.	Wavelength																		
440mm	437mm	0.633µm																		
444mm	442mm	1.064µm																		
459mm	453mm	3.0µm																		
477mm	474mm	5.0µm																		
CAF40LE NS120	40mm Ø	50.25 (±2%)	120mm @ 3µm	UV 平凸																
CAF40LE NS150	40mm Ø	64 (±2%)	150mm @ 3µm	IR 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 40mm Ø X 150mm F.L. @ 3µm MATERIAL: IR Grade CaF₂ Diameter: 40.0mm (±0.1mm) Centre Thickness: 4.1mm (±0.1mm) Radius of Curvature 1: 64.0 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 1.0mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>148mm</td><td>145mm</td><td>0.633µm</td></tr><tr><td>149mm</td><td>146mm</td><td>1.064µm</td></tr><tr><td>153mm</td><td>150mm</td><td>3.0µm</td></tr><tr><td>160mm</td><td>157mm</td><td>5.0µm</td></tr></table> Parallel F.L. Tolerances ±2% to nearest mm EPF, from the lens formula. BFL is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	148mm	145mm	0.633µm	149mm	146mm	1.064µm	153mm	150mm	3.0µm	160mm	157mm	5.0µm
Effective F.L.	Back F.L.	Wavelength																		
148mm	145mm	0.633µm																		
149mm	146mm	1.064µm																		
153mm	150mm	3.0µm																		
160mm	157mm	5.0µm																		
CAF40LE NS200	40mm Ø	85 (±2%)	200mm @ 3µm	IR 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 40mm Ø X 200mm F.L. @ 3µm MATERIAL: IR Grade CaF₂ Diameter: 40.0mm (±0.1mm) Centre Thickness: 3.3mm (±0.1mm) Radius of Curvature 1: 85.0 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 1.0mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>196mm</td><td>194mm</td><td>0.633µm</td></tr><tr><td>198mm</td><td>196mm</td><td>1.064µm</td></tr><tr><td>203mm</td><td>201mm</td><td>3.0µm</td></tr><tr><td>212mm</td><td>210mm</td><td>5.0µm</td></tr></table> Parallel F.L. Tolerances ±2% to nearest mm EPF, from the lens formula. BFL is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	196mm	194mm	0.633µm	198mm	196mm	1.064µm	203mm	201mm	3.0µm	212mm	210mm	5.0µm
Effective F.L.	Back F.L.	Wavelength																		
196mm	194mm	0.633µm																		
198mm	196mm	1.064µm																		
203mm	201mm	3.0µm																		
212mm	210mm	5.0µm																		
CAF40LE NS330	40mm Ø	138 (±2%)	330mm @ 3µm	IR 平凸																

CAF40LE NS440	40mm Ø	187 (±2%)	440mm @ 3µm	IR 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 40mm Ø X 440mm F.L. @ 3µm MATERIAL: IR Grade CaF₂ Diameter: 40.0mm (±0.1mm) Centre Thickness: 2.0mm (±0.1mm) Radius of Curvature 1: 187.0 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 1.0mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>432mm</td><td>431mm</td><td>0.633µm</td></tr><tr><td>436mm</td><td>435mm</td><td>1.064µm</td></tr><tr><td>448mm</td><td>446mm</td><td>3.0µm</td></tr><tr><td>468mm</td><td>467mm</td><td>5.0µm</td></tr></table> Paraxial F.L. Tolerances ±2% to nearest mm EFL from this lens formula. BFL is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	432mm	431mm	0.633µm	436mm	435mm	1.064µm	448mm	446mm	3.0µm	468mm	467mm	5.0µm
Effective F.L.	Back F.L.	Wavelength																		
432mm	431mm	0.633µm																		
436mm	435mm	1.064µm																		
448mm	446mm	3.0µm																		
468mm	467mm	5.0µm																		
CAF50LE NS80	50mm Ø	65.6 (±2%)	80mm @ 5µm	IR 平凸	CALCIUM FLUORIDE BI-CONVEX LENS 50mm Ø X 80mm F.L. @ 5µm MATERIAL: IR Grade CaF₂ Diameter: 50.0mm (±0.1mm) Centre Thickness: 19.9mm (±0.1mm) Radius of Curvature 1: 65.6 (±2%) Radius of Curvature 2: 65.6 (±2%) S/D: 60/40 Edge thickness: 10mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>79mm</td><td>72mm</td><td>0.633µm</td></tr><tr><td>80mm</td><td>73mm</td><td>1.064µm</td></tr><tr><td>82mm</td><td>75mm</td><td>3.0µm</td></tr><tr><td>86mm</td><td>78mm</td><td>5.0µm</td></tr></table> Paraxial F.L. Tolerances ±2% to nearest mm EFL from this lens formula. BFL is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	79mm	72mm	0.633µm	80mm	73mm	1.064µm	82mm	75mm	3.0µm	86mm	78mm	5.0µm
Effective F.L.	Back F.L.	Wavelength																		
79mm	72mm	0.633µm																		
80mm	73mm	1.064µm																		
82mm	75mm	3.0µm																		
86mm	78mm	5.0µm																		
CAF50LE NS100	50mm Ø	43.0 (±2%)	100mm @ 1µm	IR 双凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 50mm Ø X 100mm F.L. @ 1µm MATERIAL: IR Grade CaF₂ Diameter: 50.0mm (±0.1mm) Centre Thickness: 10.0mm (±0.1mm) Radius of Curvature 1: 43.0 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 2.0mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>99mm</td><td>92mm</td><td>0.633µm</td></tr><tr><td>100mm</td><td>93mm</td><td>1.064µm</td></tr><tr><td>103mm</td><td>96mm</td><td>3.0µm</td></tr><tr><td>108mm</td><td>101mm</td><td>5.0µm</td></tr></table> Paraxial F.L. Tolerances ±2% to nearest mm EFL from this lens formula. BFL is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	99mm	92mm	0.633µm	100mm	93mm	1.064µm	103mm	96mm	3.0µm	108mm	101mm	5.0µm
Effective F.L.	Back F.L.	Wavelength																		
99mm	92mm	0.633µm																		
100mm	93mm	1.064µm																		
103mm	96mm	3.0µm																		
108mm	101mm	5.0µm																		
CAF50LE NS135	50mm Ø	57.0 (±2%)	135mm @ 5µm	IR 平凸	CALCIUM FLUORIDE PLANO-CONVEX LENS 50mm Ø X 135mm F.L. @ 5µm MATERIAL: IR Grade CaF₂ Diameter: 50.0mm (±0.1mm) Centre Thickness: 7.8mm (±0.1mm) Radius of Curvature 1: 57 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 2mm (derived) <table><tr><td>Effective F.L.</td><td>Back F.L.</td><td>Wavelength</td></tr><tr><td>132mm</td><td>126mm</td><td>0.633µm</td></tr><tr><td>133mm</td><td>128mm</td><td>1.064µm</td></tr><tr><td>136mm</td><td>131mm</td><td>3.0µm</td></tr><tr><td>143mm</td><td>137mm</td><td>5.0µm</td></tr></table> Paraxial F.L. Tolerances ±2% to nearest mm EFL from this lens formula. BFL is referenced from the lens surface.	Effective F.L.	Back F.L.	Wavelength	132mm	126mm	0.633µm	133mm	128mm	1.064µm	136mm	131mm	3.0µm	143mm	137mm	5.0µm
Effective F.L.	Back F.L.	Wavelength																		
132mm	126mm	0.633µm																		
133mm	128mm	1.064µm																		
136mm	131mm	3.0µm																		
143mm	137mm	5.0µm																		

CAF50LE NS250	50mm Ø	198.9 (±2%)	250mm @ 5µm	IR 双凸	CALCIUM FLUORIDE BI-CONVEX LENS 50mm Ø X 250mm F.L. @ 5µm MATERIAL: IR Grade CaF₂ Diameter:50.0mm (±0.1mm) Centre Thickness:6.2mm (±0.1mm) Radius of Curvature 1:198.9 (±2%) Radius of Curvature 2:198.9 (±2%) S/D:60/40 Edge thickness:3mm (derived) Effective F.L.231mm233mm239mm250mm Back F.L.229mm231mm237mm248mm Wavelength0.633µm1.064µm3.0µm5.0µm Parallel F.L. Tolerances ±2% to nearest mm EFL from this lens formula. BFL is referenced from the lens surface.
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CaF₂ 负透镜

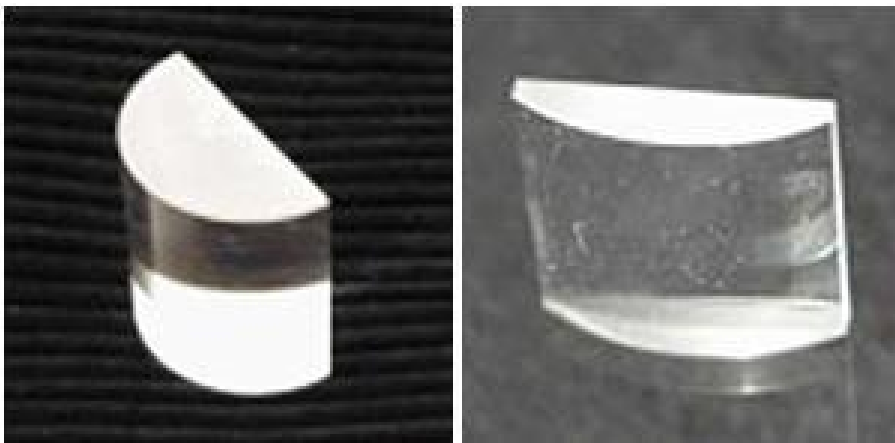


订购信息:

订购型号	规格	曲率	焦距	CaF2 等级	参数
CAF25LE NS-50	25mm Ø	-20.40 (±2%)	-50mm @ 3μm	IR 平凹	CALCIUM FLUORIDE PLANO-CONCAVE LENS 25mm Ø X -50mm F.L. @ 3μm MATERIAL: IR Grade CaF₂ Diameter: 25.0mm (±0.1mm) Centre Thickness: 3.0mm (±0.1mm) Radius of Curvature 1: -20.40 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 7.3mm (derived) Effective F.L. Back F.L. Wavelength -47mm -49mm 0.633μm -48mm -50mm 1.064μm -49mm -51mm 3.0μm -51mm -53mm 5.0μm Parallel F.L. Tolerances ±2% to nearest mm. EFL from this lens formula. BFL is referenced from the lens surface.

CAF25LE NS-100	25mm Ø	-40.32 (±2%)	-100mm @ 3μm	IR 平凹	CALCIUM FLUORIDE PLANO-CONCAVE LENS 25mm Ø X -100mm F.L. @ 3μm MATERIAL: IR Grade CaF ₂ Diameter: 25.0mm (±0.1mm) Centre Thickness: 2.0mm (±0.1mm) Radius of Curvature 1: -40.32 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 3.8mm (derived) Effective F.L. Back F.L. Wavelength -93mm -95mm 0.633μm -94mm -96mm 1.064μm -97mm -98mm 3.0μm -101mm -102mm 5.0μm Paraxial F.L. Transverse L.D. is measured mm EFL from the lens formula. EFL is referenced from the lens surface.
CAF25LE NS-150	25mm Ø	-59.85 (±2%)	-150mm @ 5μm	IR 平凹	CALCIUM FLUORIDE PLANO-CONCAVE LENS 25mm Ø X -150mm F.L. @ 5μm MATERIAL: IR Grade CaF ₂ Diameter: 25.0mm (±0.1mm) Centre Thickness: 2.1mm (±0.1mm) Radius of Curvature 1: -59.85 (±2%) Radius of Curvature 2: Plano S/D: 60/40 Edge thickness: 3.3mm (derived) Effective F.L. Back F.L. Wavelength -138mm -141mm 0.633μm -139mm -142mm 1.064μm -143mm -146mm 3.0μm -150mm -152mm 5.0μm Paraxial F.L. Transverse L.D. is measured mm EFL from the lens formula. EFL is referenced from the lens surface.

CaF2 柱面透镜:





订购信息:

订购型号	规格	曲率	焦距	CaF2 等级
CAF25-25LENS25C	25mm x 25mm 平凸半圆柱	12.5 (±2%)	25mm @ 3μm	IR 平凸
CAF25-25LENS350C	25mm x 25mm	150 (±2%)	350mm @ 3μm	IR 平凸

