

Calcium Fluoride Lenses

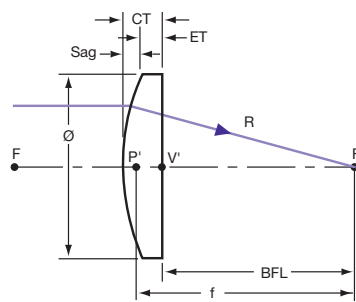
- **Transmission from 150 nm-7 μ m**

These lenses are available in plano-convex and plano-concave forms. Calcium fluoride exhibits excellent transmission from 150 nm in the ultraviolet through 7 μ m in the infrared. Because of the low refractive index of calcium fluoride, in most cases an antireflection coating is not required.

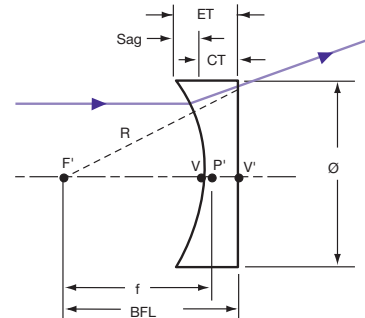


Specifications

Material: Optical grade Calcium Fluoride
Refractive index: 1.399 (at 5.0 μ m)
Abbe Number V_d : 94.9
Focal Length Tolerance: $\pm 2\%$
Diameter Tolerance: $+0.0 -0.2$ mm
Center Thickness Tolerance: ± 0.25 mm
Wedge Angle: < 5 arcmin
Surface Quality: 60-40
Uncoated



Plano-Convex Lens



Plano-Concave Lens

Plano-Convex Calcium Fluoride Lenses

Catalog Number	Focal Length, f (mm)	Diameter, Ø (mm)	Center Thickness CT (mm)	Edge Thickness ET (mm)	Principal Point V'P' (mm)	Price US
34-3483	50.0	25.4	6.6	2.0	-4.7	\$400.00
34-3491	63.0	25.4	5.4	2.0	-3.9	\$350.00
34-3517	75.0	25.4	4.8	2.0	-3.5	\$300.00
34-3533	100.0	25.4	4.1	2.0	-2.9	\$140.00
34-4929	150.0	25.4	3.4	2.0	-2.4	\$140.00
34-4960	200.0	25.4	3.0	2.0	-2.2	\$140.00
34-4994	250.0	25.4	2.8	2.0	-2.0	\$140.00
34-5017	500.0	25.4	2.4	2.0	-1.7	\$140.00
34-3558	100.0	50.8	11.6	2.5	-8.3	\$500.00
34-4945	150.0	50.8	8.2	2.5	-5.8	\$325.00
34-4978	200.0	50.8	6.6	2.5	-4.8	\$325.00
34-5009	250.0	50.8	5.8	2.5	-4.1	\$250.00
34-5025	500.0	50.8	4.1	2.5	-2.9	\$250.00

Plano-Concave Calcium Fluoride Lenses

Catalog Number	Focal Length, f (mm)	Diameter, Ø (mm)	Center Thickness CT (mm)	Edge Thickness ET (mm)	Principal Point V'P' (mm)	Price US
34-5041	-50.0	25.4	2.5	7.1	-1.8	\$250.00
34-5058	-75.0	25.4	2.5	5.3	-1.8	\$250.00
34-5066	-100.0	25.4	2.5	4.6	-1.8	\$161.00
34-5082	-150.0	50.8	3.0	8.7	-2.1	\$309.00
34-5090	-250.0	50.8	3.0	6.3	-2.1	\$309.00

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