## CALCIUM FLUORIDE(CaF2) PLANO-CONVEX LENSES

Calcium Fluoride is often used in spectroscopic windows and lenses due to its high transmission from 250nm to 7µm. Calcium Fluoride is also commonly found in cryogenically cooled thermal imaging systems.

Its low absorption and high damage threshold makes it a popular choice for excimer laser optics. Calcium Fluoride's low refractive index allows it to be used without an antireflective coating

AR coated products are available as well.

## Standard Specifications:

Optical Material: Optical Quality CaF2 Single Crystal

Diameter Tolerance: +0.0, -0.15mm

Design Wavelength: 1.500um

Design Index: 1.425 at 1.5um

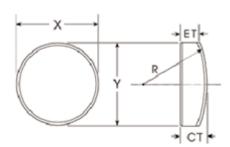
Paraxial Focal Length: ±2%

Centration: 3 arc minutes

Clear Aperture: >85%

Surface Quality: 80-50 scratch and dig Wavefront Distortion: lambda at 632.8nm Bevel: <0.25mm X 45°

Coating: available upon request



## Standard CaF2 Plano-Convex Lenses:

Dia(mm)	f(mm)	R1(mm)	tc(mm)	te(mm)	Fb(mm)	Product Number
25.4	50.0	21.25	6.2	2.0	45.6	UQT-PLCXC0301
25.4	100.0	42.50	3.9	2.0	97.3	UQT-PLCXC0302
25.4	150.0	63.75	3.3	2.0	147.7	UQT-PLCXC0303
25.4	200.0	85.00	3.0	2.0	197.9	UQT-PLCXC0304
25.4	300.0	127.50	2.6	2.0	298.2	UQT-PLCXC0305
25.4	500.0	212.50	2.4	2.0	498.3	UQT-PLCXC0306
25.4	1000.0	425.00	2.2	2.0	998.5	UQT-PLCXC0307
50.0	100.0	42.50	11.1	3.0	92.2	UQT-PLCXC0308
50.0	150.0	63.75	8.1	3.0	144.3	UQT-PLCXC0309
50.0	200.0	85.00	6.8	3.0	195.2	UQT-PLCXC0310
50.0	500.0	212.50	4.5	3.0	496.8	UQT-PLCXC0311

Please Contact ultiQuest for other dimensions in prototype and production quantities.

## NOTES!

- The edge thicknesses fare theoretical values not including chamfer.
- Be sure to wear laser safety goggles when checking optical path and adjusting optical axis.