

Infrared Lenses

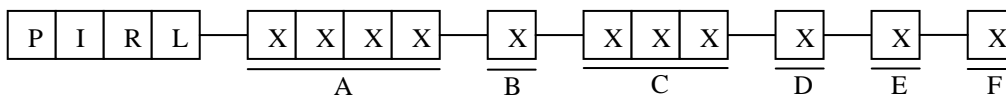
Product Description:

We provide infrared lenses made of Calcium Fluoride, Zinc Selenide, Silicon, Sapphire and Germanium. The table below shows specifications for Calcium Fluoride. It is only a guiding specifications for other materials. You may check the link for material properties. (http://www.pmoptics.com/Optical_Material.html)

Specifications:

Material	CaF2
Design Wavelength	587.6 nm
Diameter Tolerance	+0.0, -0.15 mm
Paraxial Focal Length Tolerance	± 2% @ 546.1 nm
Centering Tolerance	3 arc minutes
Clear Aperture	> 85%
Bevel	0.25mm X 45°
Surface Quality	80~50
AR coating	Specified by customer

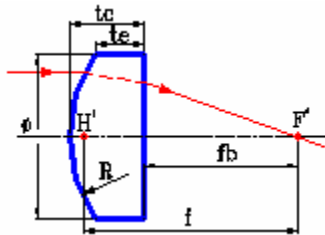
Ordering Information:



A	Central Wavelength	2500=2.5um
		5000=5.0um
		XXXX=Your application wavelength
B	Material	1= Calcium Fluoride
		2= Zinc Selenide
		3= Silicon
		4= Sapphire
		5= Germanium
		0=Special
C	Size	001=2.0X1.0X1.2X8
		Check standard size table for standard size
		000=Custom size

C	Lens Type	1=Plano-Convex Lens
		2=Plano-Concave Lens
		3=Double-Convex Lens
		4=Double-Concave Lens
		5=Plano-Convex Cylindrical Lens
		6=Plano-Concave Cylindrical Lens
		7=Meniscus Lens
D	AR Coating	1=yes
		0=no
E	Mounts	1=Yes
		0= NO

Standard Size Table for Plano-Convex Lens only (Material: CaF2)



Dimension P/N	ϕ (mm)	f (mm)	fb (mm)	R (mm)	tc (mm)	te (mm)
01	12.7	20.0	17.00	8.68	4.3	1.5
02	12.7	50.0	48.26	21.69	2.5	1.5
03	12.7	80.0	78.54	34.71	2.1	1.5
04	25.4	40.0	34.77	17.35	7.5	2.0
05	25.4	50.0	45.75	21.69	6.1	2.0
06	25.4	75.0	71.79	32.54	4.6	2.0
07	25.4	100.0	97.28	43.39	3.9	2.0
08	25.4	150.0	147.70	65.08	3.3	2.0
09	25.4	200.0	197.98	86.78	2.9	2.0
10	25.4	250.0	248.12	108.46	2.7	2.0
11	25.4	500.0	498.33	216.92	2.4	2.0
12	25.4	750.0	748.77	325.39	2.2	2.0
13	25.4	1000.0	998.47	433.85	2.2	2.0