

Prism

Mirror

Window

Beamsplitter

Waveplate

IR Optics

Lens

Filter

Micro Optics

Plastic Optics

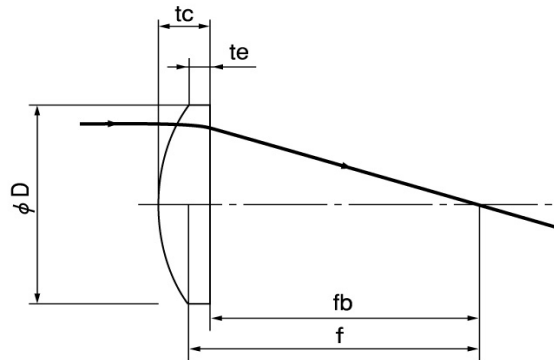
Plano Convex Lenses Sapphire

Introductions



Sapphire is an excellent optical material. It offers excellent transmission from the ultraviolet to the mid-infrared. The monotonic crystalline structure is slightly birefringent. High transmission from 150 nm to 6 μm .

Beam Path



Standard Specifications

Items	Specifications
Material	Anisotropic crystalline synthetic sapphire
Designed Wavelength	546.1 nm
Designed Index	1.771 \pm 0.0005
Dimension Tolerance	+0.0/-0.2 mm
Thickness Tolerance	\pm 0.2 mm
Paraxial Focal Length	\pm 5%
Clear Aperture	> 90%
Centration	3 arc minutes
Flatness	$\lambda/4$ at 632.8 nm
Surface Quality	scratch and dig 60-40
Bevel	0.5 (0/-0.3) mm

Notes:

1. Surface Quality could reach 40-20
2. Centration such as 1' is available.
3. Please show us the size and the coating specification.

Part NO.	f(mm)	ϕ (mm)	t_c (mm)	t_e (mm)	f_b (mm)
ISX0101	5.0	5.0	2.9	2.0	3.4
ISX0102	10.0	5.0	2.4	2.0	8.6
ISX0103	10.0	10.0	3.8	2.0	11.8
ISX0104	20.0	10.0	2.8	2.0	18.4
ISX0105	20.0	20.0	5.7	2.0	16.8
ISX0106	25.0	20.0	5.7	2.0	16.8
ISX0107	50.0	25.0	3.0	2.0	21.3

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Optical Components

ISX 01