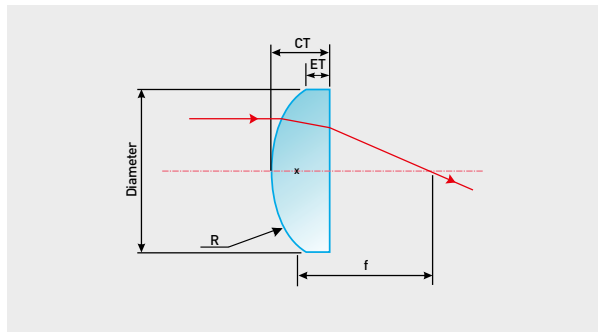
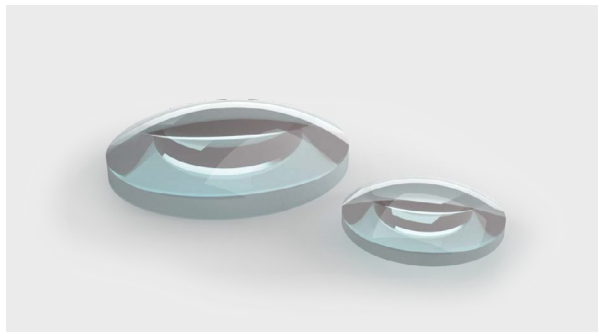


Plano-convex spherical lenses



Plano-convex spherical lenses have one plano and one spherical convex surface, while their focal lengths are positive. These lenses provide the best performance when used for 5X to infinite-conjugate

ratio applications, e.g. focusing a collimated light beam or collimating beam from a point source.

Main features

- Fabricated from high-quality UV grade fused silica and BK7 glasses
- Standard diameters are $\varnothing 12,7$ mm and $\varnothing 25,4$ mm
- Focal length selection from 20 mm to 10 000 mm
- Antireflective coatings, custom substrate material, dimensions, and focal lengths available upon request

Application examples

- Focusing a collimated beam
- Collimating beam from a point source
- Beam expanders and collimators

Standard specifications

PLANO-CONVEX LENSES	
Substrate material	BK7, UVFS
Wavelength range	Uncoated BK7 lenses: 350 nm - 2 μ m Uncoated UVFS lenses: 185 nm - 2,1 μ m
Clear aperture	>90%
Diameter tolerance	+0/-0,1 mm
Edge thickness	2 mm
Thickness tolerance	$\pm 0,5$ mm
Centration error	<3 arcmin
Focal length tolerance	$\pm 3\%$ @632,8 nm
Protective chamfers	<0,35 mm at 45°
Surface quality	40-20 S-D
Surface irregularity	$\leq \lambda/8$ @632,8 nm
Coatings	Uncoated, available upon request

Standard products

MATERIAL	DIAMETER	FOCAL LENGTH	SKU	PRICE		
BK7	$\varnothing 12,7$ mm	20 mm	7014	15 €		
		40 mm	7015	15 €		
		50 mm	7016	15 €		
		75 mm	7017	15 €		
		100 mm	7018	15 €		
		150 mm	7019	15 €		
		200 mm	7020	15 €		
		250 mm	7021	15 €		
		300 mm	7022	15 €		
		350 mm	7023	15 €		
		500 mm	7024	15 €		
		1000 mm	7025	15 €		
		1500 mm	7026	15 €		
		BK7	$\varnothing 25,4$ mm	30 mm	7134	24 €
				40 mm	7135	19 €
50 mm	7136			19 €		
60 mm	7137			19 €		
75 mm	7138			19 €		
100 mm	7141			19 €		
125 mm	7142			19 €		
150 mm	7143			19 €		
175 mm	7144			19 €		
200 mm	7145			19 €		
250 mm	7146			19 €		
300 mm	7147			19 €		
400 mm	7148			19 €		
500 mm	7149			19 €		
700 mm	7150			19 €		
1000 mm	7151	19 €				
1500 mm	7152	19 €				
2000 mm	7153	19 €				
3000 mm	7154	19 €				
4000 mm	7155	19 €				
5000 mm	7156	19 €				
2500 mm	7157	19 €				
10000 mm	7158	19 €				

MATERIAL	DIAMETER	FOCAL LENGTH	SKU	PRICE		
UVFS	$\varnothing 12,7$ mm	20 mm	7118	32 €		
		40 mm	7119	32 €		
		50 mm	7120	32 €		
		75 mm	7121	32 €		
		100 mm	7122	32 €		
		150 mm	7123	32 €		
		200 mm	7124	32 €		
		300 mm	7125	32 €		
		400 mm	7126	32 €		
		500 mm	7127	32 €		
		700 mm	7128	32 €		
		1000 mm	7129	32 €		
		1500 mm	7130	32 €		
		UVFS	$\varnothing 25,4$ mm	30 mm	7159	38 €
				40 mm	7160	38 €
50 mm	7161			38 €		
60 mm	7162			38 €		
75 mm	7163			38 €		
100 mm	7166			38 €		
125 mm	7167			38 €		
150 mm	7168			38 €		
175 mm	7169			38 €		
200 mm	7170			38 €		
250 mm	7171			38 €		
300 mm	7172			38 €		
400 mm	7173			38 €		
500 mm	7174			38 €		
750 mm	7175			38 €		
1000 mm	7176	38 €				
1500 mm	7177	38 €				
2000 mm	7178	38 €				
3000 mm	7179	38 €				
4000 mm	7180	38 €				
5000 mm	7181	38 €				
7000 mm	7182	38 €				
10000 mm	7183	38 €				