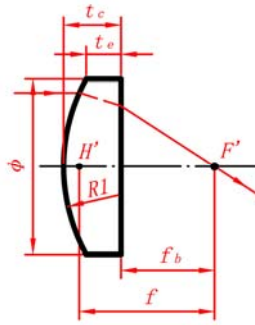


## Plano-Convex Lens



Plano-convex lenses are used in many applications including telescopes, collimators, magnifiers, radiometers, optical transceivers, and condensers. These lenses have a plane and a convex surface.

### Specification:

Material.....BK7,UVFS  
 Design Wavelength.....546.1nm  
 Design Index.....BK7 @1.5183;UVFS @1.46008±0.00005  
 Diameter Tolerance.....+0.00,-0.15mm  
 Paraxial Focus Length.....±2%(f<400mm);±5%(f>=400mm)  
 Centration.....<3 arc minutes  
 Clear Aperture.....>90%  
 Surface Quality.....60-40  
 Bevel.....0.25mmx45°

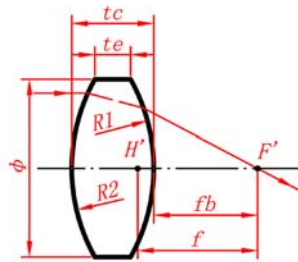
P/N	f	Φ	t <sub>c</sub>	t <sub>e</sub>	f <sub>b</sub>	Material
30101	6.00	4.00	1.50	0.77	5.00	UVFS
30102	8.00	6.00	3.30	-	5.80	UVFS
30103	10.00	5.00	1.64	-	8.91	UVFS
30104	10.00	6.00	3.00	-	8.00	UVFS
30105	15.00	12.70	6.20	2.00	10.80	UVFS
30106	20.00	12.70	4.50	2.00	16.90	UVFS
30107	25.00	12.70	3.90	2.00	22.30	UVFS
30108	30.00	12.70	3.60	2.00	27.50	UVFS
30109	40.00	12.70	3.10	2.00	37.90	UVFS
30110	35.00	25.40	8.20	2.00	29.40	UVFS
30111	50.00	25.40	5.80	2.00	46.00	UVFS
30112	75.00	25.40	4.40	2.00	72.00	UVFS
30113	100.00	25.40	3.80	2.00	97.40	UVFS
30114	150.00	25.40	3.20	2.00	147.80	UVFS
30115	175.00	25.40	3.00	2.00	172.90	UVFS
30116	200.00	25.40	2.90	2.00	198.00	UVFS
30117	250.00	25.40	2.70	2.00	248.20	UVFS
30118	300.00	25.40	2.60	2.00	298.20	UVFS
30119	500.00	25.40	2.40	2.00	498.40	UVFS
30120	1000.00	25.40	2.20	2.00	998.50	UVFS

<b>P/N</b>	<b>f</b>	<b>Φ</b>	<b>t<sub>c</sub></b>	<b>t<sub>e</sub></b>	<b>f<sub>b</sub></b>	<b>Material</b>
30121	50.00	38.00	13.00	3.00	41.10	UVFS
30122	100.00	38.00	7.10	3.00	95.10	UVFS
30123	150.00	38.00	5.70	3.00	146.10	UVFS
30124	200.00	38.00	5.00	3.00	196.60	UVFS
30125	350.00	38.00	4.10	3.00	347.20	UVFS
30126	500.00	38.00	3.80	3.00	497.40	UVFS
30127	4.00	2.00	1.26	1.00	3.20	BK7
30128	5.00	3.00	1.48	1.00	4.00	BK7
30129	6.00	4.00	1.50	0.77	5.00	BK7
30130	8.00	6.00	3.30	2.00	5.80	BK7
30131	22.0	10.0	3.1	1.9	20.0	BK7
30132	20.0	12.7	4.2	2.0	17.2	BK7
30133	30.0	12.7	3.4	2.0	27.8	BK7
30134	50.0	12.7	2.8	2.0	48.2	BK7
30135	100.0	12.7	2.4	2.0	98.4	BK7
30136	34.0	17.0	4.20	2.00	31.2	BK7
30137	35.0	20.0	4.20	1.20	32.2	BK7
30138	50.0	20.0	4.00	2.00	47.4	BK7
30139	40.0	22.4	5.3	2.0	36.5	BK7
30140	60.0	22.4	4.1	2.0	57.3	BK7
30141	75.0	22.4	3.50	1.85	72.7	BK7
30142	700.0	25.0	2.20	2.00	689.6	BK7
30143	35.0	25.4	7.2	2.0	30.3	BK7
30144	50.0	25.4	5.3	2.0	46.5	BK7
30145	60.0	25.4	4.7	2.0	56.9	BK7
30146	75.0	25.4	4.1	2.0	72.3	BK7
30147	125.0	25.4	3.3	2.0	122.8	BK7
30148	152.4	25.4	3.0	2.0	150.4	BK7
30149	200.0	25.4	2.8	2.0	198.2	BK7
30150	300.0	25.4	2.5	2.0	298.4	BK7
30151	1000.0	25.4	2.2	2.0	998.6	BK7
30152	80.0	30.0	4.8	2.0	76.8	BK7
30153	120.0	30.0	3.8	2.0	117.5	BK7
30154	50.0	38.0	11.3	3.0	42.6	BK7
30155	100.0	38.0	6.6	3.0	95.7	BK7
30156	200.0	38.0	4.8	3.0	196.8	BK7
30157	500.0	38.0	3.7	3.0	497.6	BK7
30158	150.0	42.0	4.90	2.00	146.8	BK7
30159	150.0	50.0	7.1	3.0	145.3	BK7
30160	250.0	50.0	5.4	3.0	246.4	BK7

P/N	f	$\Phi$	$t_c$	$t_e$	$f_b$	Material
30161	400.0	50.0	4.5	3.0	397.0	BK7
30162	500.0	50.0	4.2	3.0	497.2	BK7
30163	800.0	50.0	3.8	3.0	797.5	BK7
30164	88.9	50.8	10.60	3.00	81.9	BK7
30165	127.0	50.8	8.0	2.90	121.7	BK7

- Dimension unit: mm
- Other sizes and coatings are available upon request.

### Double-Convex Lens



Double-Convex Lenses are most suitable where the conjugates are on opposite sides of the lenses and the ratio of the distances is less than 5:1, e.g. as simple image relay components.

#### Specifications:

Material .....BK7,UVFS  
 Design Wavelength .....546.1nm  
 Design Index .....BK7 @1.5183;UVFS @1.46008  
 Diameter Tolerance .....+0.0/-0.15mm  
 Paraxial Focal Length ..... $\pm 2\%$ ( $f < 400\text{mm}$ ); $\pm 5\%$ ( $f \geq 400\text{mm}$ )  
 Centration .....<3 arc minutes  
 Clear Aperture .....>90%  
 Surface Quality .....60-40  
 Bevel.....Protective

P/N	f	$\Phi$	$t_c$	$t_e$	$f_b$	Material
30201	15.0	12.7	5.3	2.0	13.1	UVFS
30202	20.0	12.7	4.4	2.0	18.4	UVFS
30203	25.0	12.7	3.8	2.0	23.7	UVFS
30204	30.0	12.7	3.5	2.0	28.8	UVFS
30205	40.0	12.7	3.1	2.0	38.9	UVFS
30206	25.0	25.4	10.4	2.0	21.1	UVFS
30207	35.0	25.4	7.4	2.0	32.4	UVFS
30208	50.0	25.4	5.7	2.0	48.0	UVFS
30209	75.0	25.4	4.4	2.0	73.5	UVFS
30210	100.0	25.4	3.8	2.0	98.7	UVFS