

## PRODUCTS

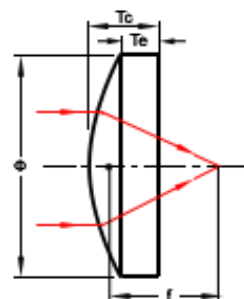
- ❖ Lens
- ❖ Window
- ❖ Prism
- ❖ Beamsplitter
- ❖ Filter
- ❖ Mirror
- ❖ Waveplate
- ❖ Crystal
- ❖ Assembly
- ❖ Material

## LENS

- |                          |                           |                           |                            |
|--------------------------|---------------------------|---------------------------|----------------------------|
| <b>Plano Convex Lens</b> | <b>Plano Concave Lens</b> | <b>Double Convex Lens</b> | <b>Double Concave Lens</b> |
| <b>Meniscus Lens</b>     | <b>Achromatic Lens</b>    | <b>Cylindrical Lens</b>   | <b>Rod Lens</b>            |
| <b>Ball Lens</b>         | <b>Half Ball Lens</b>     | <b>Aspheric Lens</b>      | <b>Ring Mount for Lens</b> |

### Plano Convex Lens

Plano Convex Lens is widely use in optical display systems, projection optics systems, imaging optical systems, and laser measurement systems. It is best use where conjugate point-- object distance, S or image distance S' is more than five times of the other. This lens is almost the most super form for both collimating a point source and focusing collimated light...



General Specifications	
Parameter	Commercial Grade
Substrate Material	BK7 grade A optical glass, Fused Silica, Sapphire etc.
Design Wavelength	546.1nm
Diameter Tolerance	+0/-0.15mm
Focal Length Tolerance	+/-2%@546.1nm
Clear Aperture	>Central 85% of diameter
Surface Quality	60-40 S/D
Centration	< 3 arc minutes
Surface Accuracy	$\lambda/4@632.8\text{nm}$
Chamfer	0.25mm x 45°
Coating	Uncoated

#### BK7 Plano Convex Lens Standard Products:

Part No.	f(mm)	$\phi$ (mm)	$R_1$ (mm)	$t_c$ (mm)	$t_e$ (mm)	$f_b$ (mm)
LPX0103	6.0	4.0	3.101	1.5	0.77	5.0
LPX0104	8.0	6.0	4.150	3.3	2.0	5.8
LPX0105	10.0	6.0	5.180	3.0	2.0	8.0
LPX0106	15.0	10.0	7.780	3.8	2.0	12.5
LPX0107	22.0	10.0	11.400	3.1	1.9	20.0
LPX0201	15.0	12.7	7.780	5.3	2.0	11.5
LPX0202	20.0	12.7	10.370	4.2	2.0	17.2
LPX0203	25.0	12.7	12.960	3.7	2.0	22.6
LPX0204	30.0	12.7	15.550	3.4	2.0	27.8

LPX0205	40.0	12.7	20.730	3.0	2.0	38.0
LPX0206	50.0	12.7	25.920	2.8	2.0	48.2
LPX0207	75.0	12.7	38.87	2.5	2.0	73.4
LPX0208	100.0	12.7	51.83	2.4	2.0	98.4
LPX0209	25.0	14.0	12.968	4.0	1.9	22.4
LPX0210	34.0	17.0	17.637	4.2	2.0	31.2
LPX0211	30.0	18.5	15.562	5.0	2.0	26.7
LPX0212	35.0	20.0	18.155	4.2	1.2	32.2
LPX0213	40.0	20.0	20.730	4.5	1.9	37.0
LPX0214	50.0	20.0	25.936	4.0	2.0	47.4
LPX0301	34.0	22.0	17.637	5.8	1.9	30.2
LPX0302	40.0	22.4	20.730	5.3	2.0	36.5
LPX0303	50.0	22.4	25.920	4.6	2.0	47.0
LPX0304	60.0	22.4	31.100	4.1	2.0	57.3
LPX0305	70.0	22.4	36.309	3.83	2.0	67.5
LPX0306	75.0	22.4	38.905	3.5	1.9	72.7
LPX0307	100.0	22.4	51.83	3.2	2.0	97.9
LPX0308	25.4	25.4	13.170	11.7	2.0	17.7
LPX0309	35.0	25.4	18.140	7.2	2.0	30.3
LPX0310	40.0	25.4	20.748	6.5	2.2	35.72
LPX0311	50.0	25.4	25.920	5.3	2.0	46.5
LPX0312	50.8	25.4	26.351	5.2	1.9	47.4
LPX0313	60.0	25.4	31.100	4.7	2.0	56.9
LPX0314	70.0	25.4	36.28	4.3	2.0	67.2
LPX0315	75.0	25.4	38.87	4.1	2.0	72.3
LPX0316	100.0	25.4	51.83	3.6	2.0	97.6
LPX0317	125.0	25.4	64.79	3.3	2.0	122.8
LPX0318	150.0	25.4	77.75	3.0	2.0	148.0
LPX0319	152.4	25.4	78.99	3.0	2.0	150.4
LPX0320	175.0	25.4	90.70	2.9	2.0	173.1
LPX0321	200.0	25.4	103.66	2.8	2.0	198.2
LPX0322	250.0	25.4	129.58	2.6	2.0	248.3
LPX0323	300.0	25.4	155.49	2.5	2.0	298.4
LPX0324	500.0	25.4	259.15	2.3	2.0	498.5
LPX0325	1000.0	25.4	518.30	2.2	2.0	998.6
LPX0326	35.0	30.0	18.155	9.9	2.0	28.5
LPX0327	80.0	30.0	41.46	4.8	2.0	76.8
LPX0328	100.0	30.0	51.83	4.2	2.0	97.2
LPX0329	120.0	30.0	62.25	3.8	2.0	117.5
LPX0330	300.0	30.0	155.62	3.8	3.1	297.5
LPX0401	50.0	38.0	25.92	11.3	3.0	42.6
LPX0402	75.0	38.0	38.87	8.0	3.0	69.7
LPX0403	100.0	38.0	51.83	6.6	3.0	95.7
LPX0404	150.0	38.0	77.75	5.3	3.0	146.5
LPX0405	200.0	38.0	103.66	4.8	3.0	196.8
LPX0406	350.0	38.0	181.41	4.0	3.0	347.4
LPX0407	500.0	38.0	259.15	3.7	3.0	497.6
LPX0408	700.0	38.0	362.81	3.5	3.0	697.7
LPX0501	150.0	42.0	77.808	4.9	2.0	146.8
LPX0502	100.0	50.0	51.83	9.4	3.0	93.8
LPX0503	150.0	50.0	77.75	7.1	3.0	145.3
LPX0504	200.0	50.0	103.66	6.1	3.0	196.0
LPX0505	250.0	50.0	129.58	5.4	3.0	246.4

LPX0506	300.0	50.0	155.49	5.0	3.0	296.7
LPX0507	400.0	50.0	207.32	4.5	3.0	397.0
LPX0508	450.0	50.0	233.24	4.3	3.0	447.2
LPX0509	500.0	50.0	259.15	4.2	3.0	497.2
LPX0510	600.0	50.0	310.98	4.0	3.0	597.4
LPX0511	800.0	50.0	414.64	3.8	3.0	797.5
LPX0512	1000.0	50.0	518.30	3.1	2.5	998.0

**Fused Silica Plano Convex Lens Standard Products:**

Part No.	f(mm)	$\varphi$ (mm)	$R_1$ (mm)	$t_c$ (mm)	$t_e$ (mm)	$f_b$ (mm)
LPX1201	15.0	12.7	6.90	6.2	2.0	10.8
LPX1202	20.0	12.7	9.20	4.5	2.0	16.9
LPX1203	25.0	12.7	11.50	3.9	2.0	22.3
LPX1204	30.0	12.7	13.80	3.6	2.0	27.5
LPX1205	40.0	12.7	18.40	3.1	2.0	37.9
LPX1301	35.0	25.4	16.10	8.2	2.0	29.4
LPX1302	50.0	25.4	23.00	5.8	2.0	46.0
LPX1303	75.0	25.4	34.51	4.4	2.0	72.0
LPX1304	100.0	25.4	46.01	3.8	2.0	97.4
LPX1305	150.0	25.4	69.01	3.2	2.0	147.8
LPX1306	175.0	25.4	80.51	3.0	2.0	172.9
LPX1307	200.0	25.4	92.02	2.9	2.0	198.0
LPX1308	250.0	25.4	115.02	2.7	2.0	248.2
LPX1309	300.0	25.4	138.02	2.6	2.0	298.2
LPX1310	500.0	25.4	230.04	2.4	2.0	498.4
LPX1311	1000.0	25.4	460.08	2.2	2.0	998.5
LPX1401	50.0	38.0	23.00	13.0	3.0	41.1
LPX1402	100.0	38.0	46.01	7.1	3.0	95.1
LPX1403	150.0	38.0	69.01	5.7	3.0	146.1
LPX1404	200.0	38.0	92.02	5.0	3.0	196.6
LPX1405	350.0	38.0	161.03	4.1	3.0	347.2
LPX1406	500.0	38.0	230.04	3.8	3.0	497.4

**Note:** Other material Plano Convex Lenses, Cutting Lenses, Square Lenses, Rectangle Lenses and Coatings are available upon requestment. Metal Mount is available upon request.

The general tolerance specifications above provide a guideline regarding manufacturing capabilities for optics ranging in size from 1-350mm. The manufacturing limits are not absolute; tighter tolerances may be possible. Part specific tolerances may vary depending on component size, shape, and/or material.



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