

GLASS BK7 PLANO-CONVEX LENSES

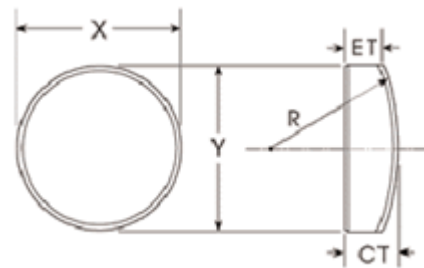
Spherical plano convex lenses of BK7 are mostly used for monochromatic lights, such as laser beams or Fraunhofer lines.

These lenses are useful when parallel beams are converged or lights from point sources are converted to parallel beams, namely at infinite conjugate ratios.

Non-coated and AR coated products are available.

Standard Specifications:

Optical Material:	BK7 Grade A Optical Glass
Diameter Tolerance:	+0.0, -0.1mm
Design Wavelength:	546.10nm
Design Index:	1.5183±0.0005
Paraxial Focal Length:	±2%
Centration:	3 arc minutes
Clear Aperture:	>85%
Surface Quality:	60-40 scratch and dig
Wavefront Distortion:	lambda/4 at 632.8nm
Bevel:	<0.25mm X 45°
Coating:	available upon request



Standard Glass BK7 Plano-Convex Lenses:

Dia(mm)	f(mm)	R1(mm)	tc(mm)	te(mm)	Fb(mm)	Product Number
4.0	6.0	3.101	1.50	0.77	5.0	UQT-PLCX0001
5.0	10	5.17	1.64	1.0	8.91	UQT-PLCX0002
6.0	8.0	4.15	3.3	2.0	5.8	UQT-PLCX0004
6.0	10.0	5.18	3.0	2.0	8.0	UQT-PLCX0005
6.0	12.0	6.22	2.8	2.0	10.2	UQT-PLCX0006
6.0	18.0	9.33	2.5	2.0	16.4	UQT-PLCX0007
8.0	10.0	5.18	3.1	2.0	8.0	UQT-PLCX0008
8.0	18.0	9.33	2.9	2.0	16.1	UQT-PLCX0009
7.5	13.0	6.743	2.0	0.86	11.7	UQT-PLCX0010
10.0	15.0	7.78	3.8	2.0	12.5	UQT-PLCX0011
10.0	22.0	11.40	3.1	1.9	20.0	UQT-PLCX0012
12.7	15.0	7.78	5.3	2.0	11.5	UQT-PLCX0013
12.7	20.0	10.37	4.2	2.0	17.2	UQT-PLCX0014
12.7	25.0	12.96	3.7	2.0	22.6	UQT-PLCX0015
12.7	30.0	15.55	3.4	2.0	27.8	UQT-PLCX0016
12.7	40.0	20.73	3.0	2.0	38.0	UQT-PLCX0017
12.7	50.0	25.92	2.8	2.0	48.2	UQT-PLCX0018
12.7	75.0	38.87	2.5	2.0	73.4	UQT-PLCX0019

12.7	100.0	51.83	2.4	2.0	98.4	UQT-PLCX0020
14.0	25.0	12.968	4.0	1.90	22.4	UQT-PLCX0021
17.0	34.0	17.637	4.20	2.00	31.2	UQT-PLCX0022
18.5	30.0	15.562	5.0	2.00	26.7	UQT-PLCX0023
20.0	40.0	20.73	4.5	1.9	37.0	UQT-PLCX0024
20.0	35.0	18.155	4.20	1.20	32.2	UQT-PLCX0025
20.0	50.0	25.936	4.00	2.00	47.4	UQT-PLCX0026
22.0	34.0	17.637	5.80	1.90	30.2	UQT-PLCX0027
22.4	40.0	20.73	5.3	2.0	36.5	UQT-PLCX0028
22.4	50.0	25.92	4.6	2.0	47.0	UQT-PLCX0029
22.4	60.0	31.10	4.1	2.0	57.3	UQT-PLCX0030
22.4	100.0	51.83	3.2	2.0	97.9	UQT-PLCX0031
22.4	75	38.905	3.50	1.85	72.7	UQT-PLCX0032
22.4	70	36.309	3.83	2.05	67.5	UQT-PLCX0033
25.0	700.0	363.105	2.20	2.00	689.6	UQT-PLCX0034
25.4	25.4	13.17	11.7	2.0	17.7	UQT-PLCX0035
25.4	35.0	18.14	7.2	2.0	30.3	UQT-PLCX0036
50.0	25.4	25.92	5.3	2.0	46.5	UQT-PLCX0037
60.0	25.4	31.10	4.7	2.0	56.9	UQT-PLCX0038
70.0	25.4	36.28	4.3	2.0	67.2	UQT-PLCX0039
75.0	25.4	38.87	4.1	2.0	72.3	UQT-PLCX0040

Please Contact [ultiQuest](#) for other dimensions in prototype and production quantities.

NOTES!

- ➔ The edge thicknesses are theoretical values not including chamfer.
- ➔ Be sure to wear laser safety goggles when checking optical path and adjusting optical axis.