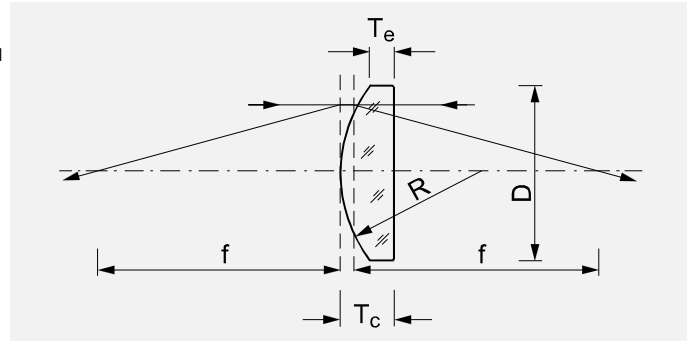


This section presents plano-convex and plano-concave lenses, bi-convex and bi-concave lenses along with cylindrical lenses, made of UVFS and BK-7. Due to high-quality treatment (SF $\lambda/10$; SQ 20-10 for both sides) and centration, these lenses are used both to form an image and in high-power laser optics (when coated adequately), including intracavity optics. For appropriate coating phase, refer to section "ANTI-REFLECTION COATINGS".)

SPECIFICATIONS

Material BK7 or UV Fused Silica
 Surface Figure $\lambda/10$ (both sides)
 Surface Quality 20-10 (both sides)
 Diameter Tolerance +0.0 mm; -0.15 mm
 Thickness Tolerance ± 0.2 mm
 Chamfer 0.5 mm at 45°
 Clear Aperture 90% of diameter
 Concentricity less than 0.2 mm
 Focal Length Tolerance $\pm 2\%$



ORDERING INFORMATION

BK 7

Part No	Focal Length (average) (mm)	Focal Length at			Radius R (mm)	T _c (mm)	T _e (mm)
		532 nm (mm)	800 nm (mm)	1064 nm (mm)			
Diameter 25 mm							
LX0254-10	50	49.98	50.8	51.24	25.94	6.2	3
LX0254-30	100	97.7	99.35	100.15	50.7	4.6	3
LX0254-45	200	200.37	203.8	205.4	103.99	3.8	3
LX0254-50	300	302.5	307.7	310.2	157.04	4.5	4
LX0254-55	400	395.1	401.9	405.2	205.1	4.4	4
LX0254-60	500	502.1	510.6	514.8	260.6	4.3	4
LX0254-65	600	602.2	612.6	617.5	312.6	4.3	4
LX0254-70	750	756.4	769.3	775.6	392.6	4.2	4
LX0254-75	1000	1025.2	1042.7	1051.2	532.1	4.2	4
LX0254-80	2000	2034.7	2069.4	2086.1	1056	4.1	4
LX0254-85	5000	4930.6	5014.6	5055.3	2559	4.1	4
LX0254-95	10000	9568.4	9731.5	9810.4	4966	4.1	4
Diameter 30 mm							
LX0304-10	50	49.98	50.8	51.24	25.94	7.8	3
LX0304-30	100	97.7	99.35	100.15	50.7	5.3	3
LX0304-45	200	200.37	203.8	205.4	103.99	5.1	4
LX0304-50	300	302.5	307.7	310.2	157.04	5.7	5
LX0304-55	400	395.1	401.9	405.2	205.1	5.5	5
LX0304-60	500	502.1	510.6	514.8	260.6	5.4	5
LX0304-65	600	602.2	612.6	617.5	312.6	5.4	5
LX0304-70	750	756.4	769.3	775.6	392.6	5.3	5
LX0304-75	1000	1025.2	1042.7	1051.2	532.1	5.2	5
LX0304-80	2000	2034.7	2069.4	2086.1	1056	5.1	5
LX0304-85	5000	4930.6	5014.6	5055.3	2559	5.1	5
LX0304-95	10000	9568.4	9731.5	9810.4	4966	5.1	5
Diameter 50 mm							
LX0504-30	100	97.7	99.35	100.15	50.7	9.6	3
LX0504-45	200	200.37	203.8	205.4	103.99	7	4
LX0504-50	300	302.5	307.7	310.2	157.04	6	4
LX0504-55	400	395.1	401.9	405.2	205.1	6.5	5
LX0504-60	500	502.1	510.6	514.8	260.6	6.2	5
LX0504-65	600	602.2	612.6	617.5	312.6	6	5
LX0504-70	750	756.4	769.3	775.6	392.6	6.8	6
LX0504-75	1000	1025.2	1042.7	1051.2	532.1	6.6	6
LX0504-80	2000	2034.7	2069.4	2086.1	1056	6.3	6
LX0504-85	5000	4930.6	5014.6	5055.3	2559	6.1	6
LX0504-95	10000	9568.4	9731.5	9810.4	4966	6.1	6

UVFS

Part №	Focal Length (average) (mm)	Focal Length at					R (mm)	T _c (mm)	T _e (mm)
		266nm (mm)	355nm (mm)	532nm (mm)	800nm (mm)	1064nm (mm)			
Diameter 25 mm									
LX1254-10	50	46.8	49.1	50.8	51.6	52	23.4	6.6	3
LX1254-30	100	92.3	96.8	100.1	101.7	102.5	46.1	4.7	3
LX1254-45	200	185.9	195.1	201.7	204.9	206.6	92.9	3.8	3
LX1254-50	300	277.5	291.3	301.1	305.9	308.5	138.68	3.6	3
LX1254-55	400	367.5	385.7	398.7	405.1	408.5	183.65	4.4	4
LX1254-60	500	461.7	484.6	500.9	508.9	513.1	230.7	4.3	4
LX1254-65	600	553.7	581.2	600.7	610.4	615.4	276.7	4.3	4
LX1254-70	750	700.2	734.9	759.7	771.9	778.2	349.9	4.2	4
LX1254-75	1000	923.2	968.9	1001.5	1017.6	1026	461.3	4.2	4
LX1254-80	2000	1860.1	1952.3	2018	2050.5	2067.4	929.5	4.1	4
LX1254-85	5000	4542.7	4767.9	4928.3	5007.7	5048.9	2270	4.1	4
LX1254-95	10000	9063.4	9512.7	9832.8	9991.2	10073.4	4529	4.1	4
Diameter 30 mm									
LX1304-10	50	46.8	49.1	50.8	51.6	52	23.4	8.4	3
LX1304-30	100	92.3	96.8	100.1	101.7	102.5	46.1	5.5	3
LX1304-45	200	185.9	195.1	201.7	204.9	206.6	92.9	5.2	4
LX1304-50	300	277.5	291.3	301.1	305.9	308.5	138.68	4.8	4
LX1304-55	400	367.5	385.7	398.7	405.1	408.5	183.65	5.6	5
LX1304-60	500	461.7	484.6	500.9	508.9	513.1	230.7	5.5	5
LX1304-65	600	553.7	581.2	600.7	610.4	615.4	276.7	5.4	5
LX1304-70	750	700.2	734.9	759.7	771.9	778.2	349.9	5.3	5
LX1304-75	1000	923.2	968.9	1001.5	1017.6	1026	461.3	5.2	5
LX1304-80	2000	1860.1	1952.3	2018	2050.5	2067.4	929.5	5.1	5
LX1304-85	5000	4542.7	4767.9	4928.3	5007.7	5048.9	2270	5.1	5
LX1304-95	10000	9063.4	9512.7	9832.8	9991.2	10073.4	4529	5.1	5
Diameter 50 mm									
LX1504-30	100	92.3	96.8	100.1	101.7	102.5	46.1	10.4	3
LX1504-45	200	185.9	195.1	201.7	204.9	206.6	92.9	7.4	4
LX1504-50	300	277.5	291.3	301.1	305.9	308.5	138.68	6.34	4
LX1504-55	400	367.5	385.7	398.7	405.1	408.5	183.65	6.85	5
LX1504-60	500	461.7	484.6	500.9	508.9	513.1	230.7	6.4	5
LX1504-65	600	553.7	581.2	600.7	610.4	615.4	276.7	6.1	5
LX1504-70	750	700.2	734.9	759.7	771.9	778.2	349.9	6.9	6
LX1504-75	1000	923.2	968.9	1001.5	1017.6	1026	461.3	6.7	6
LX1504-80	2000	1860.1	1952.3	2018	2050.5	2067.4	929.5	6.3	6
LX1504-85	5000	4542.7	4767.9	4928.3	5007.7	5048.9	2270	6.1	6
LX1504-95	10000	9063.4	9512.7	9832.8	9991.2	10073.4	4529	6.1	6

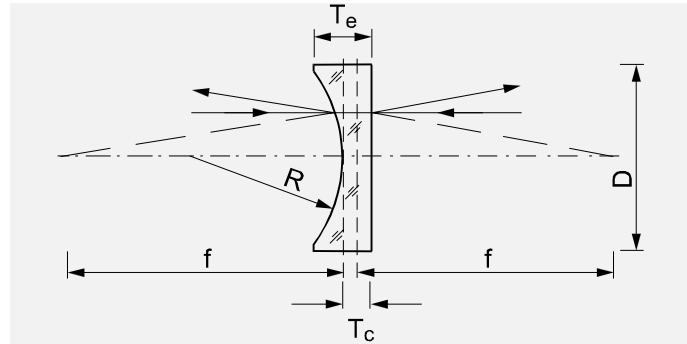
The lens focal length for wavelengths not specified in the Table can be calculated by the formula:

$$f=R/(n-1) ; \text{ (For REFRACTIVE INDEX, refer to page 1-1).}$$

Lenses with sizes and radii other than those from the Table can be available upon request.

SPECIFICATIONS

Material BK7 or UV Fused Silica
 Surface Figure $\lambda/10$ (both sides)
 Surface Quality 20-10 (both sides)
 Diameter Tolerance +0.0 mm; -0.15 mm
 Thickness Tolerance ± 0.2 mm
 Chamfer 0.5 mm at 45°
 Clear Aperture 90% of diameter
 Concentricity less than 0.2 mm
 Focal Length Tolerance .. $\pm 2\%$



ORDERING INFORMATION

BK 7

Part No	Focal Length (average) (mm)	Focal Length at			Radius R (mm)	T _c (mm)	T _e (mm)
		532 nm (mm)	800 nm (mm)	1064 nm (mm)			
Diameter 25 mm							
LV0254-10	-50	-49.98	-50.8	-51.24	-25.94	3.8	7
LV0254-30	-100	-97.7	-99.35	-100.15	-50.7	4.4	6
LV0254-45	-200	-200.37	-203.8	-205.4	-103.99	4.2	5
LV0254-50	-300	-302.5	-307.7	-310.2	-157.04	4.5	5
LV0254-55	-400	-395.1	-401.9	-405.2	-205.1	4.6	5
LV0254-60	-500	-502.1	-510.6	-514.8	-260.6	3.7	4
LV0254-65	-600	-602.2	-612.6	-617.5	-312.6	3.7	4
LV0254-70	-750	-756.4	-769.3	-775.6	-392.6	3.8	4
LV0254-75	-1000	-1025.2	-1042.7	-1051.2	-532.1	3.8	4
LV0254-80	-2000	-2034.7	-2069.4	-2086.1	-1056	3.9	4
LV0254-85	-5000	-4930.6	-5014.6	-5055.3	-2559	3.9	4
LV0254-95	-10000	-9568.4	-9731.5	-9810.4	-4966	3.9	4
Diameter 30 mm							
LV0304-10	-50	-49.98	-50.8	-51.24	-25.94	3.2	8
LV0304-30	-100	-97.7	-99.35	-100.15	-50.7	4.7	7
LV0304-45	-200	-200.37	-203.8	-205.4	-103.99	4.9	6
LV0304-50	-300	-302.5	-307.7	-310.2	-157.04	4.3	5
LV0304-55	-400	-395.1	-401.9	-405.2	-205.1	4.5	5
LV0304-60	-500	-502.1	-510.6	-514.8	-260.6	4.6	5
LV0304-65	-600	-602.2	-612.6	-617.5	-312.6	4.6	5
LV0304-70	-750	-756.4	-769.3	-775.6	-392.6	4.7	5
LV0304-75	-1000	-1025.2	-1042.7	-1051.2	-532.1	4.9	5
LV0304-80	-2000	-2034.7	-2069.4	-2086.1	-1056	4.8	5
LV0304-85	-5000	-4930.6	-5014.6	-5055.3	-2559	4.9	5
LV0304-95	-10000	-9568.4	-9731.5	-9810.4	-4966	4.9	5
Diameter 50 mm							
LV0504-30	-100	-97.7	-99.35	-100.15	-50.7	4.4	11
LV0504-45	-200	-200.37	-203.8	-205.4	-103.99	5	8
LV0504-50	-300	-302.5	-307.7	-310.2	-157.04	6	8
LV0504-55	-400	-395.1	-401.9	-405.2	-205.1	6.5	8
LV0504-60	-500	-502.1	-510.6	-514.8	-260.6	6.8	8
LV0504-65	-600	-602.2	-612.6	-617.5	-312.6	7	8
LV0504-70	-750	-756.4	-769.3	-775.6	-392.6	7.2	8
LV0504-75	-1000	-1025.2	-1042.7	-1051.2	-532.1	7.4	8
LV0504-80	-2000	-2034.7	-2069.4	-2086.1	-1056	7.7	8
LV0504-85	-5000	-4930.6	-5014.6	-5055.3	-2559	7.9	8
LV0504-95	-10000	-9568.4	-9731.5	-9810.4	-4966	7.9	8

UVFS

Part No	Focal Length (average) (mm)	Focal Length at					R (mm)	T _c (mm)	T _e (mm)
		266nm (mm)	355nm (mm)	532nm (mm)	800nm (mm)	1064nm (mm)			
Diameter 25 mm									
LV1254-10	-50	-46.8	-49.1	-50.8	-51.6	-52	-23.4	3.4	7
LV1254-30	-100	-92.3	-96.8	-100.1	-101.7	-102.5	-46.1	4.3	6
LV1254-45	-200	-185.9	-195.1	-201.7	-204.9	-206.6	-92.9	4.2	5
LV1254-50	-300	-277.5	-291.3	-301.1	-305.9	-308.5	-138.68	4.4	5
LV1254-55	-400	-367.5	-385.7	-398.7	-405.1	-408.5	-183.65	4.6	5
LV1254-60	-500	-461.7	-484.6	-500.9	-508.9	-513.1	-230.7	3.7	4
LV1254-65	-600	-553.7	-581.2	-600.7	-610.4	-615.4	-276.7	3.7	4
LV1254-70	-750	-700.2	-734.9	-759.7	-771.9	-778.2	-349.9	3.8	4
LV1254-75	-1000	-923.2	-968.9	-1001.5	-1017.6	-1026	-461.3	3.8	4
LV1254-80	-2000	-1860.1	-1952.3	-2018	-2050.5	-2067.4	-929.5	3.9	4
LV1254-85	-5000	-4542.7	-4767.9	-4928.3	-5007.7	-5048.9	-2270	3.9	4
LV1254-95	-10000	-9063.4	-9512.7	-9832.8	-9991.2	-10073.4	-4529	3.9	4
Diameter 30 mm									
LV1304-10	-50	-46.8	-49.1	-50.8	-51.6	-52	-23.4	3.6	9
LV1304-30	-100	-92.3	-96.8	-100.1	-101.7	-102.5	-46.1	4.5	7
LV1304-45	-200	-185.9	-195.1	-201.7	-204.9	-206.6	-92.9	4.8	6
LV1304-50	-300	-277.5	-291.3	-301.1	-305.9	-308.5	-138.68	4.2	5
LV1304-55	-400	-367.5	-385.7	-398.7	-405.1	-408.5	-183.65	4.4	5
LV1304-60	-500	-461.7	-484.6	-500.9	-508.9	-513.1	-230.7	4.5	5
LV1304-65	-600	-553.7	-581.2	-600.7	-610.4	-615.4	-276.7	4.6	5
LV1304-70	-750	-700.2	-734.9	-759.7	-771.9	-778.2	-349.9	4.7	5
LV1304-75	-1000	-923.2	-968.9	-1001.5	-1017.6	-1026	-461.3	4.8	5
LV1304-80	-2000	-1860.1	-1952.3	-2018	-2050.5	-2067.4	-929.5	4.9	5
LV1304-85	-5000	-4542.7	-4767.9	-4928.3	-5007.7	-5048.9	-2270	4.9	5
LV1304-95	-10000	-9063.4	-9512.7	-9832.8	-9991.2	-10073.4	-4529	4.9	5
Diameter 50 mm									
LV1504-30	-100	-92.3	-96.8	-100.1	-101.7	-102.5	-46.1	3.7	11
LV1504-45	-200	-185.9	-195.1	-201.7	-204.9	-206.6	-92.9	4.6	8
LV1504-50	-300	-277.5	-291.3	-301.1	-305.9	-308.5	-138.68	5.7	8
LV1504-55	-400	-367.5	-385.7	-398.7	-405.1	-408.5	-183.65	6.2	8
LV1504-60	-500	-461.7	-484.6	-500.9	-508.9	-513.1	-230.7	6.7	8
LV1504-65	-600	-553.7	-581.2	-600.7	-610.4	-615.4	-276.7	6.9	8
LV1504-70	-750	-700.2	-734.9	-759.7	-771.9	-778.2	-349.9	7.1	8
LV1504-75	-1000	-923.2	-968.9	-1001.5	-1017.6	-1026	-461.3	7.3	8
LV1504-80	-2000	-1860.1	-1952.3	-2018	-2050.5	-2067.4	-929.5	7.7	8
LV1504-85	-5000	-4542.7	-4767.9	-4928.3	-5007.7	-5048.9	-2270	7.8	8
LV1504-95	-10000	-9063.4	-9512.7	-9832.8	-9991.2	-10073.4	-4529	7.9	8

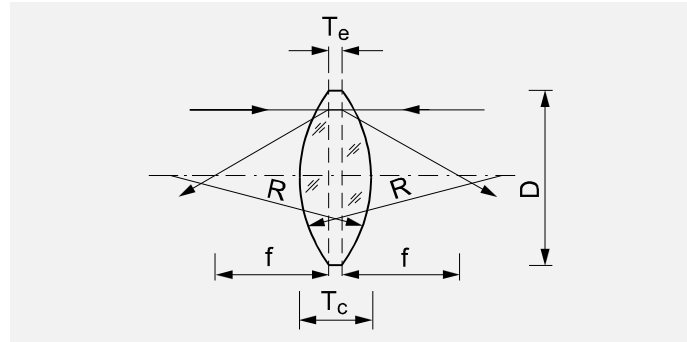
The lens focal length for wavelengths not specified in the Table can be calculated by the formula:

$$f=R/(n-1) ; \text{ (For REFRACTIVE INDEX, refer to page 1-1).}$$

Lenses with sizes and radii other than those from the Table can be available upon request.

SPECIFICATIONS

Material BK7 or UV Fused Silica
 Surface Figure $\lambda/10$ (both sides)
 Surface Quality 20-10 (both sides)
 Diameter Tolerance +0.0 mm; -0.15 mm
 Thickness Tolerance ± 0.2 mm
 Chamfer 0.5 mm at 45°
 Clear Aperture 90% of diameter
 Concentricity less than 0.2 mm
 Focal Length Tolerance ... $\pm 3\%$



ORDERING INFORMATION

BK 7

Part No	Focal Length (average) (mm)	Focal Length at			Radius R (mm)	T _c (mm)	T _e (mm)
		532 nm (mm)	800 nm (mm)	1064 nm (mm)			
Diameter 25 mm							
BX0254-5	25	25	25.4	25.6	25.95	9.4	3
BX0254-10	50	48.8	49.7	50.1	50.7	7.1	4
BX0254-30	100	100.2	101.9	102.7	103.99	6.5	5
BX0254-45	200	197.6	200.7	202.6	205.1	5.8	5
BX0254-60	500	512.6	521.4	525.6	532.1	6.3	6
BX0254-70	750	739.3	751.9	758	767.4	6.2	6
BX0254-75	1000	1018.1	1035.5	1043.9	1056.8	6.2	6
BX0254-80	2000	2031.8	2066.4	2083.2	2109	6.1	6
BX0254-85	5000	4784.2	4865.8	4905.17	4966	6.1	6
BX0254-95	10000	9633.9	9798.2	9877.5	10000	6.1	6
Diameter 30 mm							
BX0304-5	25	25	25.4	25.6	25.95	11.5	2
BX0304-10	50	48.8	49.7	50.1	50.7	7.5	3
BX0304-30	100	100.2	101.9	102.7	103.99	6.2	4
BX0304-45	200	197.6	200.7	202.6	205.1	6.1	5
BX0304-60	500	512.6	521.4	525.6	532.1	6.4	6
BX0304-70	750	739.3	751.9	758	767.4	6.3	6
BX0304-75	1000	1018.1	1035.5	1043.9	1056.8	6.2	6
BX0304-80	2000	2031.8	2066.4	2083.2	2109	6.1	6
BX0304-85	5000	4784.2	4865.8	4905.17	4966	6.1	6
BX0304-95	10000	9633.9	9798.2	9877.5	10000	6.1	6
Diameter 50 mm							
BX0504-10	50	48.8	49.7	50.1	50.7	16.2	3
BX0504-30	100	100.2	101.9	102.7	103.99	10.1	4
BX0504-45	200	197.6	200.7	202.6	205.1	8.1	5
BX0504-60	500	512.6	521.4	525.6	532.1	8.2	7
BX0504-70	750	739.3	751.9	758	767.4	8.8	8
BX0504-75	1000	1018.1	1035.5	1043.9	1056.8	8.6	8
BX0504-80	2000	2031.8	2066.4	2083.2	2109	8.3	8
BX0504-85	5000	4784.2	4865.8	4905.17	4966	8.2	8
BX0504-95	10000	9633.9	9798.2	9877.5	10000	8.1	8

UVFS

Part №	Focal Length (average) (mm)	Focal Length at					R (mm)	T _c (mm)	T _e (mm)
		266nm (mm)	355nm (mm)	532nm (mm)	800nm (mm)	1064nm (mm)			
Diameter 25 mm									
BX1254-5	25	23.4	24.6	25.5	25.9	26.1	23.447	10.2	3
BX1254-10	50	46.1	48.4	50.1	50.9	51.3	46.13	7.45	4
BX1254-30	100	93	97.6	100.8	102.5	103.3	92.9	6.7	5
BX1254-45	200	183.8	192.9	199.4	202.6	204.2	183.65	5.9	5
BX1254-60	500	461.6	484.5	500.9	508.8	513	461.3	6.34	6
BX1254-70	750	673.4	706.8	730.6	742.3	748.4	673	6.2	6
BX1254-75	1000	930	976.2	1009	1025.3	1033.7	929.5	6.2	6
BX1254-80	2000	1840.2	1931.4	1996.3	2028.5	2045.2	1839.08	6.1	6
BX1254-85	5000	4531.7	4756.3	4916.4	4995.6	5036.7	4529	6.1	6
BX1254-95	10000	8959.4	9403.5	9719.9	9876.5	9957.7	8954	6.1	6
Diameter 30 mm									
BX1304-5	25	23.4	24.6	25.5	25.9	26.1	23.447	12.9	2
BX1304-10	50	46.1	48.4	50.1	50.9	51.3	46.13	8	3
BX1304-30	100	93	97.6	100.8	102.5	103.3	92.9	6.4	4
BX1304-45	200	183.8	192.9	199.4	202.6	204.2	183.65	6.2	5
BX1304-60	500	461.6	484.5	500.9	508.8	513	461.3	6.5	6
BX1304-70	750	673.4	706.8	730.6	742.3	748.4	673	6.3	6
BX1304-75	1000	930	976.2	1009	1025.3	1033.7	929.5	6.2	6
BX1304-80	2000	1840.2	1931.4	1996.3	2028.5	2045.2	1839.08	6.1	6
BX1304-85	5000	4531.7	4756.3	4916.4	4995.6	5036.7	4529	6.1	6
BX1304-95	10000	8959.4	9403.5	9719.9	9876.5	9957.7	8954	6.1	6
Diameter 50 mm									
BX1504-10	50	46.1	48.4	50.1	50.9	51.3	46.13	17.7	3
BX1504-30	100	93	97.6	100.8	102.5	103.3	92.9	10.9	4
BX1504-45	200	183.8	192.9	199.4	202.6	204.2	183.65	8.4	5
BX1504-60	500	461.6	484.5	500.9	508.8	513	461.3	8.4	7
BX1504-70	750	673.4	706.8	730.6	742.3	748.4	673	8.9	8
BX1504-75	1000	930	976.2	1009	1025.3	1033.7	929.5	8.7	8
BX1504-80	2000	1840.2	1931.4	1996.3	2028.5	2045.2	1839.08	8.3	8
BX1504-85	5000	4531.7	4756.3	4916.4	4995.6	5036.7	4529	8.2	8
BX1504-95	10000	8959.4	9403.5	9719.9	9876.5	9957.7	8954	8.1	8

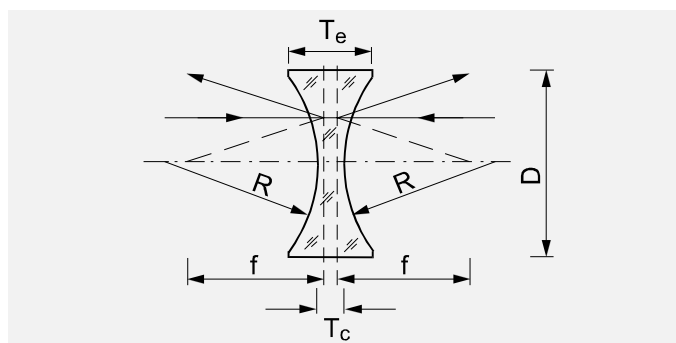
The lens focal length for other wavelengths can be calculated by the formula:

$$f \sim R/2(n-1) ; \text{ (For REFRACTIVE INDEX refer to page 1-1).}$$

Bi-convex lenses with sizes and focal length other than those from the table can be available upon request.

SPECIFICATIONS

Material BK7 or UV Fused Silica
 Surface Figure $\lambda/10$ (both sides)
 Surface Quality 20-10 (both sides)
 Diameter Tolerance +0.0 mm; -0.15 mm
 Thickness Tolerance ± 0.2 mm
 Chamfer 0.5 mm at 45°
 Clear Aperture 90% of diameter
 Concentricity less than 0.2 mm
 Focal Length Tolerance $\pm 3\%$



ORDERING INFORMATION

BK 7

Part No	Focal Length (average) (mm)	Focal Length at			Radius R (mm)	T _c (mm)	T _e (mm)
		532 nm (mm)	800 nm (mm)	1064 nm (mm)			
Diameter 25 mm							
BV0254-5	-25	-25	-25.4	-25.6	-25.95	4.6	11
BV0254-10	-50	-48.8	-49.7	-50.1	-50.7	4.9	8
BV0254-30	-100	-100.2	-101.9	-102.7	-103.99	4.5	6
BV0254-45	-200	-197.6	-200.7	-202.6	-205.1	5.2	6
BV0254-60	-500	-512.6	-521.4	-525.6	-532.1	5.7	6
BV0254-70	-750	-739.3	-751.9	-758	-767.4	5.8	6
BV0254-75	-1000	-1018.1	-1035.5	-1043.9	-1056.8	5.8	6
BV0254-80	-2000	-2031.8	-2066.4	-2083.2	-2109	5.9	6
BV0254-85	-5000	-4784.2	-4865.8	-4905.17	-4966	5.9	6
BV0254-95	-10000	-9633.9	-9798.2	-9877.5	-10000	5.9	6
Diameter 30 mm							
BV0304-5	-25	-25	-25.4	-25.6	-25.95	4.5	14
BV0304-10	-50	-48.8	-49.7	-50.1	-50.7	4.5	9
BV0304-30	-100	-100.2	-101.9	-102.7	-103.99	4.8	7
BV0304-45	-200	-197.6	-200.7	-202.6	-205.1	4.9	6
BV0304-60	-500	-512.6	-521.4	-525.6	-532.1	5.6	6
BV0304-70	-750	-739.3	-751.9	-758	-767.4	5.7	6
BV0304-75	-1000	-1018.1	-1035.5	-1043.9	-1056.8	5.8	6
BV0304-80	-2000	-2031.8	-2066.4	-2083.2	-2109	5.9	6
BV0304-85	-5000	-4784.2	-4865.8	-4905.17	-4966	5.9	6
BV0304-95	-10000	-9633.9	-9798.2	-9877.5	-10000	5.9	6
Diameter 50 mm							
BV0504-10	-50	-48.8	-49.7	-50.1	-50.7	6.8	20
BV0504-30	-100	-100.2	-101.9	-102.7	-103.99	6.9	13
BV0504-45	-200	-197.6	-200.7	-202.6	-205.1	6.9	10
BV0504-60	-500	-512.6	-521.4	-525.6	-532.1	6.8	8
BV0504-70	-750	-739.3	-751.9	-758	-767.4	7.2	8
BV0504-75	-1000	-1018.1	-1035.5	-1043.9	-1056.8	7.4	8
BV0504-80	-2000	-2031.8	-2066.4	-2083.2	-2109	7.7	8
BV0504-85	-5000	-4784.2	-4865.8	-4905.17	-4966	7.8	8
BV0504-95	-10000	-9633.9	-9798.2	-9877.5	-10000	7.9	8

UVFS

Part №	Focal Length (average) (mm)	Focal Length at					Radius (mm)	Centre Thickness (mm)	Edge Thickness (mm)
		266nm (mm)	355nm (mm)	532nm (mm)	800nm (mm)	1064nm (mm)			
Diameter 25 mm									
BV1254-5	-25	-23.4	-24.6	-25.5	-25.9	-26.1	-23.447	3.8	11
BV1254-10	-50	-46.1	-48.4	-50.1	-50.9	-51.3	-46.13	4.5	8
BV1254-30	-100	-93	-97.6	-100.8	-102.5	-103.3	-92.9	4.3	6
BV1254-45	-200	-183.8	-192.9	-199.4	-202.6	-204.2	-183.65	5.1	6
BV1254-60	-500	-461.6	-484.5	-500.9	-508.8	-513	-461.3	5.7	6
BV1254-70	-750	-673.4	-706.8	-730.6	-742.3	-748.4	-673	5.8	6
BV1254-75	-1000	-930	-976.2	-1009	-1025.3	-1033.7	-929.5	5.8	6
BV1254-80	-2000	-1840.2	-1931.4	-1996.3	-2028.5	-2045.2	-1839.08	5.9	6
BV1254-85	-5000	-4531.7	-4756.3	-4916.4	-4995.6	-5036.7	-4529	5.9	6
BV1254-95	-10000	-8959.4	-9403.5	-9719.9	-9876.5	-9957.7	-8954	5.9	6
Diameter 30 mm									
BV1304-5	-25	-23.4	-24.6	-25.5	-25.9	-26.1	-23.447	3.1	14
BV1304-10	-50	-46.1	-48.4	-50.1	-50.9	-51.3	-46.13	4	9
BV1304-30	-100	-93	-97.6	-100.8	-102.5	-103.3	-92.9	4.6	7
BV1304-45	-200	-183.8	-192.9	-199.4	-202.6	-204.2	-183.65	4.8	6
BV1304-60	-500	-461.6	-484.5	-500.9	-508.8	-513	-461.3	5.5	6
BV1304-70	-750	-673.4	-706.8	-730.6	-742.3	-748.4	-673	5.7	6
BV1304-75	-1000	-930	-976.2	-1009	-1025.3	-1033.7	-929.5	5.8	6
BV1304-80	-2000	-1840.2	-1931.4	-1996.3	-2028.5	-2045.2	-1839.08	5.9	6
BV1304-85	-5000	-4531.7	-4756.3	-4916.4	-4995.6	-5036.7	-4529	5.9	6
BV1304-95	-10000	-8959.4	-9403.5	-9719.9	-9876.5	-9957.7	-8954	5.9	6
Diameter 50 mm									
BV1504-10	-50	-46.1	-48.4	-50.1	-50.9	-51.3	-46.13	5.3	20
BV1504-30	-100	-93	-97.6	-100.8	-102.5	-103.3	-92.9	6.1	13
BV1504-45	-200	-183.8	-192.9	-199.4	-202.6	-204.2	-183.65	6.6	10
BV1504-60	-500	-461.6	-484.5	-500.9	-508.8	-513	-461.3	6.6	8
BV1504-70	-750	-673.4	-706.8	-730.6	-742.3	-748.4	-673	7.1	8
BV1504-75	-1000	-930	-976.2	-1009	-1025.3	-1033.7	-929.5	7.3	8
BV1504-80	-2000	-1840.2	-1931.4	-1996.3	-2028.5	-2045.2	-1839.08	7.7	8
BV1504-85	-5000	-4531.7	-4756.3	-4916.4	-4995.6	-5036.7	-4529	7.8	8
BV1504-95	-10000	-8959.4	-9403.5	-9719.9	-9876.5	-9957.7	-8954	7.9	8

The lens focal length for other wavelengths can be calculated by the formula:

$$f \sim R/2(n-1) ; \text{ (For REFRACTIVE INDEX refer to page 1-1).}$$

Bi-convex lenses with sizes and focal length other than those from the table can be available upon request.

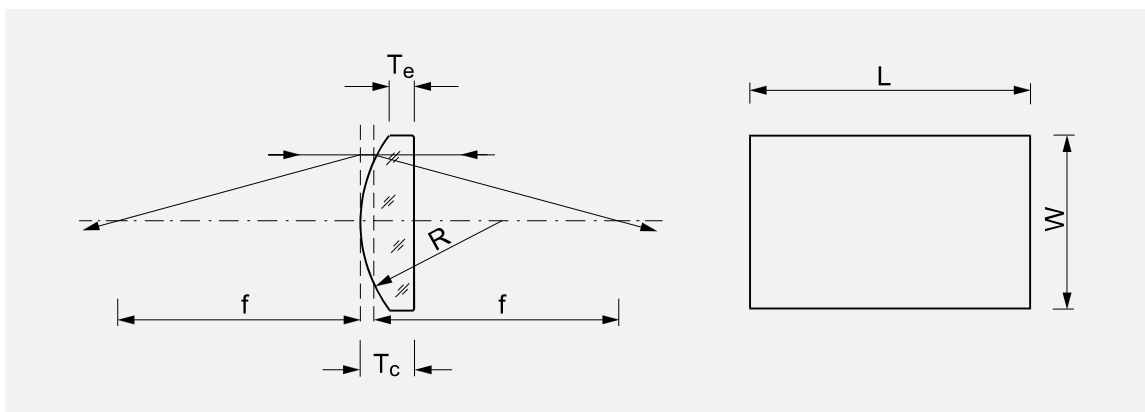
SPECIFICATIONS

Material	BK 7 or UV Fused Silica
Surface Figure	width $\lambda/2$, length $\lambda/4$ per cm at 632.8 nm
Surface Quality	Both surfaces 40-20
Sizes Tolerance	+0.0 mm; -0.25 mm
Thickness Tolerance	± 0.2 mm
Chamfer	0.5 mm at 45°
Clear Aperture Length	Central 85% of Length
Clear Aperture Width	Central 85% of Width
Centration	<3arc minutes
Focal Length Tolerance	$\pm 2\%$

ORDERING INFORMATION

BK 7

Part No	Focal Length (average) (mm)	Focal Length at			L (mm)	W (mm)	R (mm)	T _c (mm)	T _e (mm)
		532nm (mm)	800nm (mm)	1064nm (mm)					
CX0204-10	50	49.6	50.5	50.9	20	20	25.76	5	3
CX0204-30	100	100.2	101.9	102.7	20	20	52	4	3
CX0204-45	200	200.3	203.8	205.4	20	20	103.99	4.5	4
CX0204-50	300	298.4	303.5	306	20	20	154.88	4.3	4
CX0204-55	400	398.8	405.6	409	20	20	207	4.2	4
CX0204-60	500	493.9	502.4	506.5	20	20	256.4	4.2	4
CX0204-75	1000	990.2	1007.6	1015.4	20	20	514	4.1	4
CX0404-30	100	100.2	101.9	102.7	40	40	52	7	3
CX0404-45	200	200.3	203.8	205.4	40	40	103.99	6	4
CX0404-50	300	298.4	303.5	306	40	40	154.88	6.3	5
CX0404-55	400	398.8	405.6	409	40	40	207	6	5
CX0404-60	500	496.2	504.8	508.9	40	40	256.4	5.8	5
CX0404-75	1000	990.2	1007.6	1015.4	40	40	514	5.4	5
CX0254-30	100	100.2	101.9	102.7	50	25	52	5.5	4
CX0254-45	200	200.3	203.8	205.4	50	25	103.99	5.8	5
CX0254-50	300	298.4	303.5	306	50	25	154.88	5.5	5
CX0254-55	400	398.8	405.6	409	50	25	207	5.4	5
CX0254-60	500	493.9	502.4	506.5	50	25	256.4	5.3	5
CX0254-75	1000	990.2	1007.6	1015.4	50	25	514	5.2	5



UVFS

Part №	Focal Length (average) (mm)	Focal Length at				L (mm)	W (mm)	R (mm)	T _c (mm)	T _e (mm)
		266nm (mm)	355nm (mm)	532nm (mm)	1064nm (mm)					
CX1204-10	50	47.6	49.9	51.6	52.9	20	20	23.77	5.2	3
CX1204-30	100	95.3	100.1	103.4	106	20	20	47.64	4.0	3
CX1204-45	200	192.9	202.4	209.2	214.4	20	20	96.38	4.5	4
CX1204-50	300	288	302.2	312.4	320	20	20	143.88	4.3	4
CX1204-55	400	383.1	402.1	415.6	425.8	20	20	191.43	4.2	4
CX1204-60	500	475.7	499.3	516.1	529	20	20	237.7	4.2	4
CX1204-75	1000	962.2	1009.9	1043.9	1069.4	20	20	480.8	4.1	4
CX1404-30	100	95.3	100.1	103.4	106	40	40	47.64	7.4	3
CX1404-45	200	192.9	202.4	209.2	214.4	40	40	96.38	6.1	4
CX1404-50	300	288	302.2	312.4	320	40	40	143.88	6.3	5
CX1404-55	400	383.1	402.1	415.6	425.8	40	40	191.43	6.0	5
CX1404-60	500	475.7	499.3	516.1	529	40	40	237.7	5.8	5
CX1404-75	1000	962.2	1009.9	1043.9	1069.4	40	40	480.8	5.4	5
CX1254-30	100	95.3	100.1	103.4	106	50	25	47.64	5.7	4
CX1254-45	200	192.9	202.4	209.2	214.4	50	25	96.38	5.8	5
CX1254-50	300	288	302.2	312.4	320	50	25	143.88	5.5	5
CX1254-55	400	383.1	402.1	415.6	425.8	50	25	191.43	5.4	5
CX1254-60	500	475.7	499.3	516.1	529	50	25	237.7	5.3	5
CX1254-75	1000	962.2	1009.9	1043.9	1069.4	50	25	480.8	5.2	5

The lens focal length for wavelengths not specified in the Table can be calculated by the formula:

$$f=R/(n-1) ; \text{ (For REFRACTIVE INDEX, refer to page 1-1).}$$

Lenses with sizes and radii other than those from the Table can be available upon request.

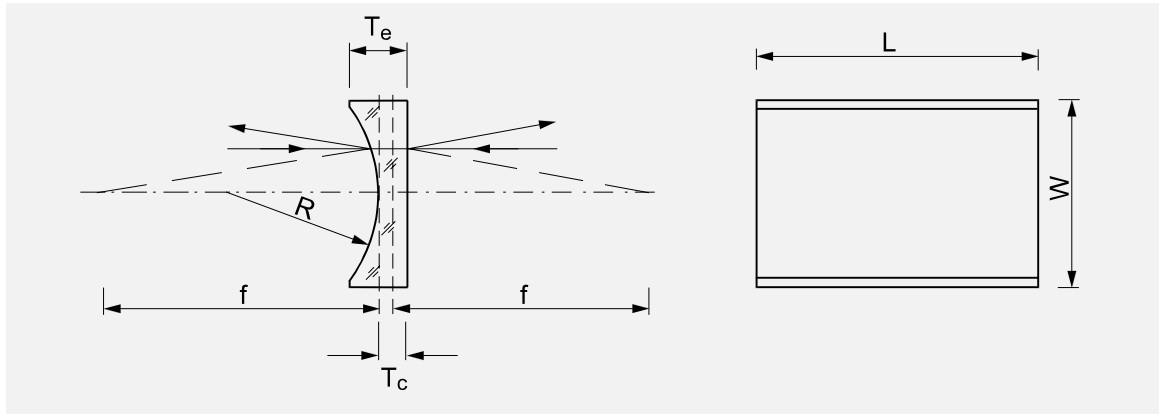
SPECIFICATIONS

Material	BK 7 or UV Fused Silica
Surface Figure	width $\lambda/2$, length $\lambda/4$ per cm at 632.8 nm
Surface Quality	Both surfaces 40-20
Diameter Tolerance	+0.0 mm; -0.25 mm
Thickness Tolerance	± 0.2 mm
Chamfer	0.5 mm at 45°
Clear Aperture Length	Central 85% of Length
Clear Aperture Width	Central 85% of Width
Concentricity	<3 arc minutes
Focal Length Tolerance	$\pm 2\%$

ORDERING INFORMATION

BK 7

Part No	Focal Length (average) (mm)	Focal Length at			L (mm)	W (mm)	R (mm)	T _c (mm)	T _e (mm)
		532nm (mm)	800nm (mm)	1064nm (mm)					
CV0204-10	-50	-49.6	-50.5	-50.9	20	20	-25.76	3	5
CV0204-30	-100	-100.2	-101.9	-102.7	20	20	-52	3	4
CV0204-45	-200	-200.3	-203.8	-205.4	20	20	-103.99	3.5	4
CV0204-50	-300	-298.4	-303.5	-306	20	20	-154.88	3.7	4
CV0204-55	-400	-398.8	-405.6	-409	20	20	-207	3.8	4
CV0204-60	-500	-493.9	-502.4	-506.5	20	20	-256.4	3.8	4
CV0204-75	-1000	-990.2	-1007.6	-1015.4	20	20	-514	3.9	4
CV0404-30	-100	-100.2	-101.9	-102.7	40	40	-52	3	7
CV0404-45	-200	-200.3	-203.8	-205.4	40	40	-103.99	5	6
CV0404-50	-300	-298.4	-303.5	-306	40	40	-154.88	4.7	6
CV0404-55	-400	-398.8	-405.6	-409	40	40	-207	5	6
CV0404-60	-500	-496.2	-504.8	-508.9	40	40	-256.4	5.2	6
CV0404-75	-1000	-990.2	-1007.6	-1015.4	40	40	-514	5.6	6
CV0254-30	-100	-100.2	-101.9	-102.7	50	25	-52	4.5	6
CV0254-45	-200	-200.3	-203.8	-205.4	50	25	-103.99	5.2	6
CV0254-50	-300	-298.4	-303.5	-306	50	25	-154.88	5.5	6
CV0254-55	-400	-398.8	-405.6	-409	50	25	-207	5.6	6
CV0254-60	-500	-493.9	-502.4	-506.5	50	25	-256.4	5.7	6
CV0254-75	-1000	-990.2	-1007.6	-1015.4	50	25	-514	5.8	6



UVFS

Part №	Focal Length (average) (mm)	Focal Length at				L (mm)	W (mm)	R (mm)	T _c (mm)	T _e (mm)
		266nm (mm)	355nm (mm)	532nm (mm)	1064nm (mm)					
CV1204-10	-50	-47.6	-49.9	-51.6	-52.9	20	20	-23.77	2.8	5
CV1204-30	-100	-95.3	-100.1	-103.4	-106	20	20	-47.64	3.0	4
CV1204-45	-200	-192.9	-202.4	-209.2	-214.4	20	20	-96.38	3.5	4
CV1204-50	-300	-288	-302.2	-312.4	-320	20	20	-143.88	3.7	4
CV1204-55	-400	-383.1	-402.1	-415.6	-425.8	20	20	-191.43	3.8	4
CV1204-60	-500	-475.7	-499.3	-516.1	-529	20	20	-237.7	3.8	4
CV1204-75	-1000	-962.2	-1009.9	-1043.9	-1069.4	20	20	-480.8	3.8	4
CV1404-30	-100	-95.3	-100.1	-103.4	-106	40	40	-47.64	3.6	8
CV1404-45	-200	-192.9	-202.4	-209.2	-214.4	40	40	-96.38	3.9	6
CV1404-50	-300	-288	-302.2	-312.4	-320	40	40	-143.88	4.7	6
CV1404-55	-400	-383.1	-402.1	-415.6	-425.8	40	40	-191.43	5.0	6
CV1404-60	-500	-475.7	-499.3	-516.1	-529	40	40	-237.7	5.2	6
CV1404-75	-1000	-962.2	-1009.9	-1043.9	-1069.4	40	40	-480.8	5.2	6
CV1254-30	-100	-95.3	-100.1	-103.4	-106	50	25	-47.64	4.3	6
CV1254-45	-200	-192.9	-202.4	-209.2	-214.4	50	25	-96.38	5.2	6
CV1254-50	-300	-288	-302.2	-312.4	-320	50	25	-143.88	5.5	6
CV1254-55	-400	-383.1	-402.1	-415.6	-425.8	50	25	-191.43	5.6	6
CV1254-60	-500	-475.7	-499.3	-516.1	-529	50	25	-237.7	5.7	6
CV1254-75	-1000	-962.2	-1009.9	-1043.9	-1069.4	50	25	-480.8	5.8	6

The lens focal length for wavelengths not specified in the Table can be calculated by the formula:

$$f=R/(n-1); \text{ (For REFRACTIVE INDEX, refer to page 1-1).}$$

Lenses with sizes and radii other than those from the Table can be available upon request.