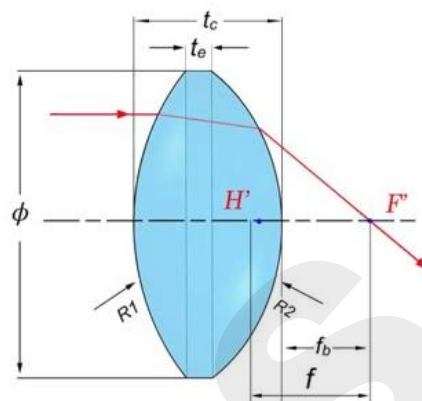


Double Convex Lens

Specifications:

- **Material:** BK7 or other optical glass, Fused Silica, CaF2, ZnSe
- **Diameter Tolerance:** +0.0, -0.15mm
- **Thickness Tolerance:** +/-0.2mm
- **Paraxial Focal Length:** ±2%
- **Centration:** 3 arc minutes
- **Surface Quality:** 60-40 scratch and dig
- **Surface Figure:** $\lambda/4@632.8\text{nm}$
- **Clear Aperture:** >85%
- **Coating:** Customer specified



Part Number	Diameter (mm)	Focal Length (f mm)	Back Focal Length (fb mm)	R1 (mm)	-R2 (mm)	Center Thickness (Tc mm)	Edge Thickness (Te mm)	Material
LEN1020-002-16R3	2	2	1.3	1.73	1.73	1.63	1	
LEN1020-2R5-14R6	2	2.5	1.9	2.3	2.3	1.46	1	
LEN1030-003-19	3	3	2.2	2.73	2.73	1.9	1	
LEN1030-6R3-13R6	3	6.3	5.8	6.27	6.27	1.36	1	
LEN1040-004-21R6	4	4	3.2	3.73	3.73	2.16	1	
LEN1050-4R5-26R5	5	4.5	3.7	4.28	4.28	2.65	1	
LEN1050-9R7-26ZF7LA	5	9.7		47.35	9.32	2.6	2.19	H-ZF7LA
LEN1055-4R1-31R5LaK1	5.5	4.1		3.55	7.34	3.15	1.325	H-LaK1
LEN1060-010-24	6	10		9.88		2.4	1.5	
LEN1060-010-60	6	10	7.6	9.1	9.1	6	4.98	
LEN1060-012-23	6	12		11.96		2.3	1.5	
LEN1060-015-21	6	15		15.09		2.1	1.5	
LEN1060-21R9-18	6	21.9		58.34	14	1.8		
LEN1060-030-15	6	30		30.6		1.8	1.5	
LEN1060-030-23	6	30	29.2	30.62	30.62	2.3	2	
LEN1063-6R3-33R4	6.3	6.3	5	5.86	5.86	3.34	1.5	
LEN1080-10R1-25	8	10.1		10	10	2.5		
LEN1100-010-48R7	10	10	8.2	9.42	9.42	4.87	2	
LEN1100-12R5-36R3	10	12.5	11.2	12.27	12.27	3.63	2	
LEN1050-24R3-30-ZLAF50E	10	24.3		88.44	24.151	3		H-ZLAF50E
LEN1120-11R8-57	12	11.7		7.3	26.6	5.7		
LEN1125-12R5-55R5	12.5	12.5	10.5	11.89	11.89	5.55	2	
LEN1125-025-26	12.5	25	24.1	25.4	25.4	2.6	1.04	
LEN1127-015-47	12.7	15		14.64		4.7	1.8	
LEN1127-020-39	12.7	20		19.92		3.9	1.8	
LEN1127-025-34	12.7	25		25.16		3.4	1.8	
LEN1127-030-31	12.7	30		30.37		3.1	1.8	

Double Convex Lens

Part Number	Diameter (mm)	Focal Length (f mm)	Back Focal Length (fb mm)	R1 (mm)	-R2 (mm)	Center Thickness (Tc mm)	Edge Thickness (Te mm)	Material
LEN1127-040-28	12.7	40		40.73		2.8	1.8	
LEN1127-050-26	12.7	50		51.06		2.6	1.8	
LEN1127-100-22	12.7	100		102.64		2.2	1.8	
LEN1128-020-30	12.9	20	18.9	20.15	20.15	3	0.9	
LEN1130-18R2-44	13	18.2	16.6	18	18	4.4	1.97	
LEN1150-030-37	15	30		30.37	30.37	3.7		
LEN1160-016-65R1	16	16	13.6	15.31	15.31	6.51	2	
LEN1160-030-37	16	30		30.37	30.37	3.7		
LEN1165-25R9-52	16.5	25.9		26	26	5.2	2.513	
LEN1180-25R8-50	18	25.8		25.946	25.946	5		
LEN1200-20R7-40ZF52	20	20.7		44.86	28.12	4	1.03	H-ZF52
LEN1200-023-47LAK51A	20	23		150	17	4.65		LAK51A
LEN1220-30R6-53LAK50A	22	30.5		38.937	38.937	5.31		H-LAK50A
LEN1230-26R2-70	23	26.2		33.135	21.376	7		
LEN1250-025-89R6	25	25	21.8	24.19	24.19	8.96	2	
LEN1250-39R8-53	25	39.8		40.42	40.42	5.3	1.34	
LEN1250-040-55	25	40	38.1	40.4	40.4	5.5	1.6	
LEN1254-25R4-90	25.4	25.4		24.53		9	1.9	
LEN1254-030-77	25.4	30		29.54		7.7	2	
LEN1254-035-68	25.4	35		34.86		6.8	2	
LEN1254-38R1-65	25.4	38.1		89.168	24.776	6.48		
LEN1254-040-61	25.4	40		40.14		6.1	2	
LEN1254-050-52	25.4	50		50.61		5.2	2	
LEN1254-060-47	25.4	60		61		4.7	2	
LEN1254-075-41	25.4	75		76.56		4.1	2	
LEN1254-100-36	25.4	100		102.4		3.6	2	
LEN1254-125-33	25.4	125		129.1	129.1	3.3		
LEN1254-150-31	25.4	150		154		3.1	2	
LEN1254-175-29	25.4	175		179.79		2.9	2	
LEN1254-200-28	25.4	200		205.56		2.8	2	
LEN1254-250-26	25.4	250		257.1		2.6	2	
LEN1254-300-25	25.4	300		308.63		2.5	2	
LEN1254-400-24	25.4	400		411.66		2.4	2	



Double Convex Lens

Part Number	Diameter (mm)	Focal Length (f mm)	Back Focal Length (fb mm)	R1(mm)	-R2 (mm)	Center Thickness (Tc mm)	Edge Thickness (Te mm)	Material
LEN1254-500-23	25.4	500		514.7		2.3	2	
LEN1254-750-22	25.4	750		772.56		2.2	2	
LEN1254-100-22	25.4	1000		1029.81		2.2	2	
LEN1400-040-135	40	40	35.2	38.85	38.85	13.59	2.5	
LEN0400-60-88	40	60	57	60.67	60.67	8.8	2.1	
LEN0400-80-80	40	80	77.3	81.58	81.58	8	3	
LEN0400-100-80	40	100	96.9	101.9	101.9	8	4	
LEN0400-200-80	40	200	196	204.6	204.6	8	6	
LEN0400-400-80	40	400	397.3	413.4	413.4	8	7	
LEN1500-050-168	50	50	44.1	48.59	48.59	16.85	3	
LEN0500-50-154	50	50	44.6	2		49.1	15.4	
LEN0500-100-100	50	100	96.6	101.9	101.9	10	3.9	
LEN0500-150-90	50	150	147	154	154	9	4.96	
LEN0500-200-50	50	200	198.3	206.55	206.55	5.03	2	
LEN0500-250-50	50	250	248.4	258.4	258.4	5	2.58	
LEN1508-060-144	50.8	60		59.26		14.4	3	
LEN1508-075-118	50.8	75		75.2		11.8	3	
LEN1508-100-95	50.8	100		101.38		9.5	3	
LEN1508-125-81	50.8	125		127.38		8.1	3	
LEN1508-150-72	50.8	150		153.29		7.2	3	
LEN1508-175-66	50.8	175		179.15		6.6	3	
LEN1508-200-62	50.8	200		204.98		6.2	3	
LEN1508-250-55	50.8	250		256.61		5.5	3	
LEN1508-300-51	50.8	300		308.29		5.1	3	
LEN1508-400-46	50.8	400		411.29		4.6	3	
LEN1508-500-43	50.8	500		514.36		4.3	3	
LEN1508-750-38	50.8	750		771.99		3.8	3	
LEN1508-1000-36	50.8	1000		1029.57		3.6	3	
LEN1630-063-204	63	63	55.8	61.39	61.39	20.4	3	
LEN0750-100-170	75	100	94.2	100.7	100.7	17	2.7	
LEN0750-150-120	75	150	146	153.5	153.5	12	2.7	
LEN0750-200-100	75	200	196.6	205.6	205.6	10	3.12	
LEN0750-300-90	75	300	297	309.5	309.5	9	4.5	
LEN0750-400-90	75	400	397	413.27	413.27	9	5.6	
LEN11000-100-315	100	100	89.9	98.5	98.5	31.52	4	



Double Convex Lens

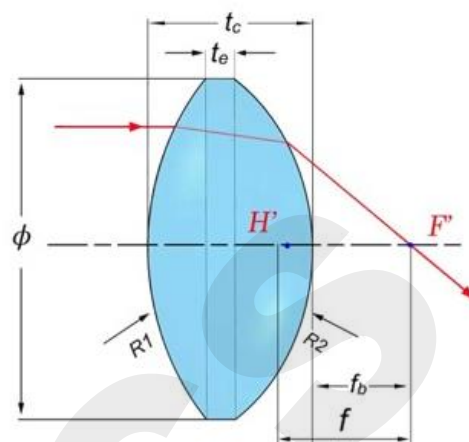
Part Number	Diameter (mm)	Focal Length (f mm)	Back Focal Length (fb mm)	R1(mm)	-R2 (mm)	Center Thickness (Tc mm)	Edge Thickness (Te mm)	Material
LEN01000-150-190	100	150	143.6	152.25	152.25	19	2.2	
LEN01000-200-160	100	200	194.6	204.64	204.64	16	3.7	
LEN01000-300-120	100	300	296	309.05	309.05	12	3.9	
LEN01000-400-120	100	400	396	412.95	412.95	12	5.95	
LEN01000-500-100	100	500	496.7	516.8	516.8	10	5.17	
LEN01500-300-240	150	300	292	306.97	306.97	24	5.51	
LEN01500-400-181	150	400	394	411.7	411.7	18.1	4.38	
LEN01500-500-160	150	500	494.6	515.77	515.77	16	5.1	
LEN01500-600-150	150	600	595	619.65	619.65	15	5.94	
LEN01500-700-130	150	700	695.7	723.7	723.7	13	5.22	
LEN01500-800-120	150	800	796	827.58	827.58	12	5.21	
LEN02000-500-240	200	500	492	514.39	514.39	24	4.44	
LEN02000-600-210	200	600	593	618.62	618.62	21	4.78	
LEN02000-700-190	200	700	693.7	722.67	722.67	19	5.13	
LEN02000-800-180	200	800	794	826.55	826.55	18	5.88	
LEN02000-900-170	200	900	894.3	930.43	930.43	17	6.25	
LEN02000-1000-170	200	1000	994.3	1034.13	1034.1	17	7.33	
LEN02500-800-280	250	800	790.7	824.84	824.84	28	9.02	
LEN02500-900-270	250	900	891	928.7	928.7	27	10.18	
LEN02500-1000-260	250	1000	991.4	1032.58	1032.6	26	10.86	
LEN02500-1200-250	250	1200	1191	1240.17	1240.2	25	12.43	
LEN02500-1400-260	250	1400	1391	1447.41	1447.4	26	15.23	
LEN03000-1000-349	300	1000	988.4	1031.05	1031.1	34.9	13.06	
LEN03000-1100-350	300	1100	1088	1134.74	1134.7	35	15.19	
LEN03000-1200-340	300	1200	1188	1238.62	1238.6	34	15.87	
LEN03000-1300-320	300	1300	1289	1342.67	1342.7	32	15.28	
LEN03000-1400-320	300	1400	1389	1446.38	1446.4	32	16.47	
LEN03000-1500-320	300	1500	1489	1549.69	1549.7	32	17.5	



SiO₂ Double Convex Lens

Specifications:

- **Material:** Fused Silica
- **Diameter Tolerance:** +0.0, -0.15mm
- **Thickness Tolerance:** +/-0.2mm
- **Paraxial Focal Length:** ±2%
- **Centration:** 3 arc minutes
- **Surface Quality:** 60-40 scratch and dig
- **Surface Figure:** λ/4@632.8nm
- **Clear Aperture:** >85%
- **Coating:** Customer specified



Part Number	Diameter (mm)	Focal Length (f mm)	Back Focal Length (fb mm)	R1=-R2 (mm)	Center Thickness (Tc mm)	Edge Thickness (Te mm)
LEN1040-004-30FS	4	4	2.8	3.12	2.96	1.5
LEN1060-010-30FS	6	10	8.6	8.68	3	1.93
LEN1060-016-16FS	6	16	15.4	14.42	1.63	1
LEN1063-6R3-37FS	6.3	6.3	4.88	5.13	3.67	1.5
LEN1100-010-48FS	10	10	8.1	8.34	4.83	1.5
LEN1120-11R9-70R9	12	11.9		9.74	7.09	2.96
LEN1127-12R7-63FS	12.7	12.7	10.3	10.54	6.26	2
LEN1127-015-54FS	12.7	15	13	12.86	5.36	2
LEN1150-015-54FS	15	15	13	12.91	5.4	0.6
LEN1160-016-67FS	16	16	13.5	13.523	6.7	1.5
LEN1200-23R7-60JGS1	20	23.7	21.6	20.88	6	0.9
LEN1200-33R7-50JGS1	20	33.7	31.9	30.24	5	1.597
LEN1254-25R4-103FS	25.4	25.4	21.5	21.55	10.28	2
LEN1254-030-86FS	25.4	30	26.8	26.09	8.6	2
LEN1254-61R8-40FS	25.4	61.8	60.3	26	3.96	1
LEN1254-100-38FS	25.4	100	98.6	91.09	3.78	2
LEN1254-300-31FS	25.4	300	298.9	274.6	3.09	2.5
LEN1254-500-34FS	25.4	500	493.8	457.93	3.35	3
LEN1254-800-32FS	25.4	800	798.8	733	3.22	3
LEN1504-075-125FS	50.38	75	70.6	67	12.5	2.5
LEN1508-100-103FS	50.8	100	96.4	90.4	10.3	3
LEN1508-150-78FS	50.8	150	147.3	136.8	7.8	3
LEN1508-200-65FS	50.8	200	197.7	183	6.5	3
LEN1508-250-58FS	50.8	250	248	229.1	5.8	3
LEN1508-300-54FS	50.8	300	298.2	275.2	5.4	3
LEN1508-500-44FS	50.8	500	498.5	459.4	4.4	3
LEN1508-1000-37FS	50.8	1000	998.7	919.6	3.7	3

