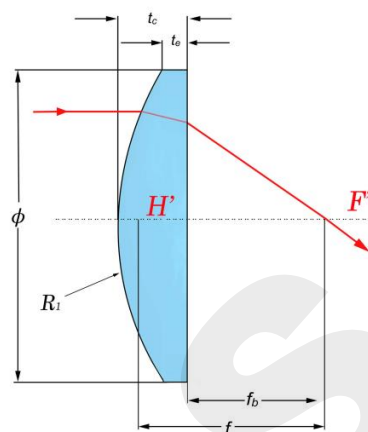


# Plano Convex Lens

## 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)	Center Thickness (Tc mm)	Edge Thickness (Te mm)	Material
LEN0035-3R9-35ZF6	3.5	3.94		3	3.5		H-ZF6
LEN0040-005-19	4	5	3.78	2.58	1.9	0.95	
LEN0040-6R3-17	4	6.3	5.1	3.25	1.7	1.01	
LEN0040-010-17	4	10	8.8	5.17	1.7	1.3	
LEN0050-4R97-18-ZLaF50	5	4.97		4.02	1.87	1	H-ZLaF50B
LEN0050-008-15	5	8	7	4.13	1.5	0.66	
LEN0060-7R3-30	6	7.2		3.75	3		
LEN0060-008-20	6	7.9		4.125	2		
LEN0060-010-25	6	10	8.3	5.15	2.5	1.5	
LEN0060-012-23	6	12	10.4	6.18	2.3	1.5	
LEN0060-14R9-20	6	14.9		7.75	2	1.4	
LEN0060-015-21	6	15	13.6	7.73	2.1	1.5	
LEN0060-15R6-10ZF6	6	15.5		11.668	1		H-ZF6
LEN0060-16R2-19LaF10L	6	16.1		12.8	1.9		H-LaF10L
LEN0060-18R2-19ZF2	6	18.2		12.33	1.9		H-ZF2
LEN0060-030-18	6	30	28.8	15.45	1.8	1.5	
LEN0063-008-26	6.3	8	6.2	4.13	2.6	1.14	
LEN0063-010-26	6.3	10	8.3	5.17	2.6	1.53	
LEN0063-12R5-23	6.3	12.5	10.9	6.46	2.3	1.48	
LEN0063-016-21	6.3	16	14.6	8.26	2.1	1.48	
LEN0063-020-20	6.3	20	18.7	10.36	2	1.51	
LEN0063-025-19	6.3	25	23.7	12.91	1.9	1.51	
LEN0063-040-17	6.3	40	38.8	20.65	1.7	1.46	
LEN0063-063-17	6.3	63	61.8	32.5	1.7	1.55	
LEN0068-08R9-30ZF13	6.8	8.9		7.06	3		H-ZF13
LEN0070-07R3-34	7	7.2		3.75	3.4		
LEN0080-24R7-17	8	24.7		12.8	1.7		
LEN0080-090-20	8	90		48.68	2		
LEN0084-17R7-22	8.4	17.7		9.15	2.2		
LEN0090-012-34	9	12	9.7	6.18	3.4	1.5	
LEN0090-19R6-25ZK50	9	19.6		12	2.5		H-ZK50
LEN0090-020-25	9	20	18.3	10.3	2.5	1.5	
LEN0099-18R9-31	9.87	18.8		9.793	3.1		
LEN0100-12R5-39	10	12.5	9.9	6.46	3.9	1.53	



## Plano Convex Lens

Part Number	Diameter (mm)	Focal Length (f mm)	Back Focal Length (fb mm)	R1 (mm)	Center Thickness (Tc mm)	Edge Thickness (Te mm)	Material
LEN0100-15R1-30BaK2	10	15.1	13.2	8.183	3	1.3	H-BaK2
LEN0100-016-32	10	16	13.8	8.26	3.2	1.52	
LEN0100-020-28	10	20	18.2	10.36	2.8	1.51	
LEN0100-025-25	10	25	23.3	12.91	2.5	1.49	
LEN0100-31R5-23	10	31.5	29.9	16.27	2.3	1.51	
LEN0100-040-21	10	40	38.6	20.65	2.1	1.49	
LEN0100-050-20	10	50	48.7	25.84	2	1.51	
LEN0100-60R1-30	10	60		31.041	3		
LEN0100-063-19	10	63	61.6	32.5	1.9	1.51	
LEN0100-100-17	10	100	98.8	51.64	1.7	1.46	
LEN0110-12R6-38	11	12.6		6.55	3.8		
LEN0110-15R5-32	11	15.5		8.017	3.2		
LEN0120-20R3-30	12	20.3	18.3	10.5	3	1.12	
LEN0120-23R9-28	12	23.9		12.42	2.8		
LEN0120-23R9-28	12	23.9		12.42	2.8		
LEN0124-017-50	12.4	17		8.743	5		
LEN0125-150-28	12.5	50			2.8		
LEN0127-015-51	12.7	15	11.6	7.73	5.1	1.8	
LEN0127-020-40	12.7	20	17.3	10.3	4	1.8	
LEN0127-020-42	12.7	20		10.37	4.2		
LEN0127-025-35	12.7	25	22.6	12.88	3.5	1.8	
LEN0127-030-32	12.7	30	27.8	15.45	3.2	1.8	
LEN0127-030-30	12.7	30	28	15.495	3	1.64	
LEN0127-030-34	12.7	30		15.55	3.4		
LEN0127-040-28	12.7	40	38.1	20.6	2.8	1.8	
LEN0127-040-29	12.7	40		20.67	2.9		
LEN0127-050-26	12.7	50	48.2	25.75	2.6	1.8	
LEN0127-100-22	12.7	100	98.5	51.51	2.2	1.8	
LEN0127-100-127	12.7	100		51.68	12.7		
LEN0140-30R3-50	14	30.3		15.668	5		
LEN0140-30R3-34	14	30.3		15.668	3.4		
LEN0140-057-50	14	57		29.316	5		
LEN0150-060-23	15	26.4	23.4	13.644	4.5	2.25	
LEN0150-060-23	15	60	58.5	31.02	2.3	1.38	
LEN0160-020-48	16	20	16.9	10.36	4.8	1.02	
LEN0160-025-40	16	25	22.3	12.91	4	1.22	
LEN0160-31R5-36	16	31.5	29.1	16.27	3.6	1.5	
LEN0160-040-31	16	40	37.9	20.65	3.1	1.49	



## Plano Convex Lens

Part Number	Diameter (mm)	Focal Length (f mm)	Back Focal Length (fb mm)	R1 (mm)	Center Thickness (Tc mm)	Edge Thickness (Te mm)	Material
LEN0160-050-28	16	50	48.2	25.84	2.8	1.53	
LEN0160-063-25	16	63	61.2	32.5	2.5	1.5	
LEN0160-080-23	16	80	78.4	41.3	2.3	1.52	
LEN0160-100-21	16	100	98.6	51.64	2.1	1.48	
LEN0160-160-19	16	160	158.7	82.62	1.9	1.51	
LEN0170-030-34	17	30		15.28	3.4		
LEN0170-48R7-30	17	48.7	46.7	25.19	3	1.52	
LEN0180-020-71	18	20	15.3	10.3	7.1	1.8	
LEN0180-025-55	18	25	21.3	12.88	5.5	1.8	
LEN0180-030-47	18	30	26.9	15.45	4.7	1.8	
LEN0180-050-34	18	50	47.7	25.75	3.4	1.8	
LEN0190-36R6-46	18.98	36.5		18.978	4.567		
LEN0200-030-45	20	30	27	15.5	4.5	0.84	
LEN0200-050-42	20	50	47.2	25.84	4.2	2.19	
LEN0200-050-113	20	50		25.92	11.3		
LEN0250-25R4-112	25	25.4	18	13.11	11.16	2	
LEN0250-26R7-95	25	26.7	20.4	13.8	9.5	1.55	
LEN0250-31R5-79	25	31.5	26.3	16.27	7.86	2	
LEN0250-040-62	25	40	35.8	20.65	6.21	2	
LEN0250-050-56	25	49.9		25.985	5.51		
LEN0250-050-47	25	50	46.1	25.84	4.7	1.47	
LEN0250-063-40	25	63	59.4	32.5	4	1.5	
LEN0250-076-36	25	76	73.6	39.28	3.6	1.56	
LEN0250-080-39	25	80	77.3	41.3	3.94	2	
LEN0250-100-35	25	100	97.6	51.64	3.54	2	
LEN0250-125-32	25	125	122.8	64.55	3.22	2	
LEN0250-160-30	25	160	158	82.62	2.95	2	
LEN0250-200-28	25	200	198.1	103.28	2.76	2	
LEN0250-250-26	25	250	248.5	129.24	2.61	2	
LEN0250-315-20	25	315	313.6	162.79	2	1.5	
LEN0250-400-24	25	400	397.5	206.1	2.38	2	
LEN0250-500-23	25	500	498.4	258.18	2.3	2	
LEN0250-630-18	25	630	628.8	325.58	1.78	1.54	
LEN0250-800-17	25	800	798.8	413.44	1.7	1.5	
LEN0250-1000-22	25	1000	998.8	516.5	2.15	2	
LEN0254-99R3-40	25.4	99.2		51.5	4		
LEN0286-46R8-68B270	28.6	46.7		24.559	6.74		B270



# Plano Convex Lens

Part Number	Diameter (mm)	Focal Length (f mm)	Back Focal Length (fb mm)	R1 (mm)	Center Thickness (Tc mm)	Edge Thickness (Te mm)	Material
LEN0300-035-99	30	35	0	18.088	9.9		
LEN0400-050-120	40	50	42.1	25.84	11.98	2.5	
LEN0400-060-77	40	60	74.9	41.3	7.67	2.5	
LEN0400-60-93	40	60	53.9	31.03	9.31	2	
LEN0400-063-94	40	63	56.7	32.5	9.36	2.5	
LEN0400-80-90	40	80	74.7	41.48	9	2.86	
LEN0400-100-65	40	100	95.7	51.64	6.53	2.5	
LEN0400-100-70	40	100	95.3	51.85	7	3.02	
LEN0400-125-57	40	125	121.2	64.55	5.68	2.5	
LEN0400-160-50	40	160	156.7	82.62	4.96	2.5	
LEN0400-200-45	40	200	197	103.28	4.45	2.5	
LEN0400-200-50	40	200	196.7	103.7	5	3.05	
LEN0400-250-41	40	250	247.6	129.24	4.06	2.5	
LEN0400-300-50	40	300	296.7	155.04	5	3.7	
LEN0400-400-50	40	400	396.7	206.72	5	4.03	
LEN0400-500-33	40	500	497.8	258.18	3.28	2.5	
LEN0450-100-61	45	100	96.4	51.9	6.1	0.97	
LEN0450-120-61	45	120	116	62.2	6.1	1.89	
LEN0500-060-114	50	60	72.4	41.3	11.43	3	
LEN0500-063-147	50	63	53.2	32.5	14.73	3	
LEN0500-75-110	50	75	68.3	38.76	11	1.86	
LEN0500-100-95	50	100	93.7	51.64	9.45	3	
LEN0500-100-100	50	100	93.4	51.68	10	3.55	
LEN0500-125-100	50	125	118.3	64.6	10	4.97	
LEN0500-150-90	50	150	144	77.52	9	4.48	
LEN0500-160-69	50	160	155.4	82.62	6.87	3	
LEN0500-175-90	50	175	169	90.44	9	5.48	
LEN0500-200-51	50	200	196.6	103.36	5.07	2	
LEN0500-250-54	50	250	246.7	129.24	5.44	3	
LEN0500-250-49	50	250	246.7	129.21	4.94	2.5	
LEN0500-500-42	50	500	497.2	258.18	4.21	3	
LEN0500-500-50	50	500	496.7	258.4	5	3.79	
LEN0630-100-137	63	100	90.9	51.64	13.72	3	
LEN0630-125-112	63	125	117.6	64.55	11.21	3	
LEN0630-160-92	63	160	153.9	82.62	9.24	3	
LEN0630-250-69	63	250	245.7	129.24	6.9	3	



# Plano Convex Lens

Part Number	Diameter (mm)	Focal Length (f mm)	Back Focal Length (fb mm)	R1 (mm)	Center Thickness (Tc mm)	Edge Thickness (Te mm)	Material
LEN0630-500-49	63	500	496.3	258.18	4.93	3	
LEN0630-1000-40	63	1000	997.6	516.5	3.96	3	
LEN0750-75-326.8	75	75	53.4	38.76	32.68	3.66	
LEN0750-150-115	75	150	142.4	77.52	11.45	1.78	
LEN0750-200-87	75	200	194.2	103.36	8.74	1.7	
LEN0800-150-141	80	150	140.6	77.52	14.12	3	
LEN0800-300-83	80	300	294.5	155.04	8.25	3	
LEN0800-500-61	80	500	495.5	258.18	6.12	3	
LEN0800-1000-46	80	1000	996	516.82	4.6	3.05	
LEN0800-2000-38	80	2000	1997.5	1033.65	3.76	2.99	
LEN01000-160-209	100	160	146.2	82.62	20.85	4	
LEN01000-200-153	100	200	189.9	103.36	15.3	2.4	
LEN01000-250-141	100	250	241.3	129.24	14.05	4	
LEN01000-300-114	100	300	292.4	155.04	11.4	3.12	
LEN01000-400-107	100	400	392.9	206.72	10.7	4.56	
LEN01000-500-89	100	500	494.1	258.18	8.89	4	
LEN01000-500-89	100	500	494.1	258.4	8.9	4.02	
LEN01000-600-88	100	600	594.2	310.08	8.78	4.72	
LEN01250-200-246	125	200	183.8	103.36	24.55	3.51	
LEN01250-250-196	125	250	237	129.2	19.6	3.48	
LEN01250-300-174	125	300	288.5	155.04	17.4	4.24	
LEN01250-400-136	125	400	391	206.72	13.6	3.93	
LEN01250-500-129	125	500	491.5	258.4	12.9	5.23	
LEN01250-600-118	125	600	592.2	310.08	11.8	5.44	
LEN01250-700-108	125	700	692.9	361.76	10.75	5.31	
LEN01250-800-103	125	800	793.2	413.44	10.3	5.55	
LEN01500-300-233	150	300	284.6	155.04	23.3	3.95	
LEN01500-400-166	150	400	389	206.72	16.59	2.5	
LEN01500-500-154	150	500	489.8	258.4	15.4	4.28	
LEN01500-600-137	150	600	590	310.08	13.7	4.49	
LEN01500-700-126	150	700	691.7	361.76	12.57	4.71	
LEN01500-800-121	150	800	792	413.44	12.1	5.24	
LEN02000-400-292	200	400	380.7	206.72	29.2	3.4	
LEN02000-500-243	200	500	483.9	258.4	24.3	4.17	
LEN02000-600-215	200	600	585.8	310.08	21.5	4.93	
LEN02000-700-196	200	700	687	361.76	19.6	5.5	



## Plano Convex Lens

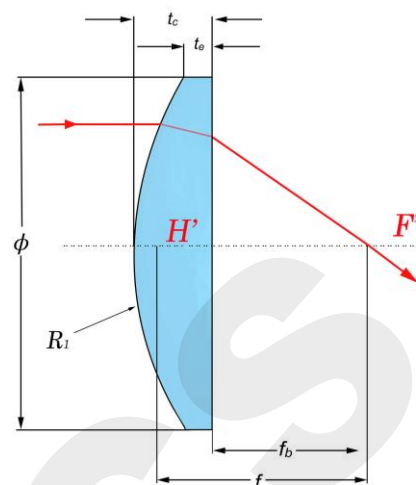
Part Number	Diameter (mm)	Focal Length (f mm)	Back Focal Length (fb mm)	R1 (mm)	Center Thickness (Tc mm)	Edge Thickness (Te mm)	Material
LEN02000-800-181	200	800	788	413.44	18.1	5.92	
LEN02000-900-173	200	900	888.6	465.12	17.3	6.4	
LEN02000-1000-167	200	1000	989	516.8	16.7	6.93	
LEN02500-600-305	250	600	579.9	310.08	30.5	4.19	
LEN02500-700-266	250	700	682.5	361.76	26.6	4.32	
LEN02500-800-245	250	800	783.8	413.44	24.5	5.15	
LEN02500-900-237	250	900	884.3	465.12	23.7	6.59	
LEN02500-1000-225	250	1000	985.2	516.8	22.5	7.16	
LEN02500-1100-216	250	1100	1085.8	568.48	21.6	7.69	
LEN02500-1200-201	250	1200	1186.7	620.16	20.1	7.27	
LEN03000-800-346	300	800	777.2	413.44	34.6	6.43	
LEN03000-1000-296	300	1000	980.4	516.8	29.6	7.35	
LEN03000-1200-268	300	1200	1182.3	620.16	26.8	8.39	
LEN03000-1400-240	300	1400	1384.1	723.52	24	8.28	
LEN03000-1600-243	300	1600	1584	826.88	24.3	10.58	



# SiO<sub>2</sub> Plano 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 (mm)	Center Thickness (Tc mm)	Edge Thickness (Te mm)
LEN0040-005-22FS	4	5	3.48	2.29	2.2	1
LEN0040-6R3-21FS	4	6.3	4.85	2.89	2.11	1.3
LEN0040-010-20FS	4	10	8.6	4.58	1.96	1.5
LEN0040-015-18FS	4	15	13.7	6.88	1.8	1.5
LEN0040-020-17FS	4	20	18.8	9.17	1.72	1.5
LEN0050-010-22FS	5	10	8.5	4.6	2.2	1.5
LEN0060-15R1-22FS	6	15.1	13.6	6.9	2.2	1.5
LEN0060-20R1-20FS	6	20.1	18.7	9.2	2	1.5
LEN0060-30R1-18FS	6	30.1	28.9	13.8	1.8	1.5
LEN0063-010-28FS	6.3	10	8.1	4.58	2.75	1.5
LEN0063-12R5-24FS	6.3	12.5	10.8	5.73	2.44	1.5
LEN0063-015-23FS	6.3	15	13.4	6.88	2.26	1.5
LEN0063-020-21FS	6.3	20	18.5	9.17	2.06	1.5
LEN0063-025-19FS	6.3	25	23.6	11.46	1.94	1.5
LEN0063-040-18FS	6.3	40	38.7	18.34	1.77	1.9
LEN0063-050-17FS	6.3	50	48.8	22.92	1.72	1.5
LEN0100-12R5-44FS	10	12.5	9.4	5.73	4.43	1.5
LEN0100-015-37FS	10	15	12.4	6.88	3.66	1.5
LEN0100-016-33FS	10	16	13.7	7.34	3.3	1.3
LEN0100-020-30FS	10	20	17.9	9.17	3	1.5
LEN0100-025-27FS	10	25	23.1	11.46	2.65	1.5
LEN0100-030-23FS	10	30	28.5	13.8	2.3	1.4
LEN0100-040-27FS	10	40	38.1	18.34	2.7	2
LEN0100-050-26FS	10	50	48.2	22.92	2.56	2
LEN0127-20R1-43FS	12.7	20.1	17.1	9.2	4.3	1.8
LEN0127-025-39FS	12.7	25	22.3	11.46	3.92	2
LEN0127-30R1-33FS	12.7	30.1	27.8	13.8	3.3	1.8
LEN0127-40R1-29FS	12.7	40.1	38.1	18.4	2.9	1.8
LEN0127-50R2-27FS	12.7	50.2	48.3	23	2.7	1.8
LEN0127-75R3-24FS	12.7	75.3	73.6	34.5	2.4	1.8
LEN0127-100-22FS	12.7	100.3	98	46	2.2	1.8
LEN0150-20R5-49FS	15	20.5	17.1	9.4	4.9	1.2
LEN0150-31R6-32FS	15	31.6	29.4	14.49	3.2	1.2
LEN0150-045-26FS	15	45	43.1	20.6	2.6	1.2
LEN0150-063-26FS	15	63	61.1	28.84	2.63	1.5
LEN0160-063-26FS	16	63	61.1	28.84	2.63	1.5
LEN0200-030-60FS	20	30	25.8	13.8	6	1.69
LEN0200-040-50FS	20	40	36.7	18.3	5	2.1



## SiO2 Plano Convex Lens

Part Number	Diameter (mm)	Focal Length (f mm)	Back Focal Length (fb mm)	R1 (mm)	Center Thickness (Tc mm)	Edge Thickness (Te mm)
LEN0200-060-50FS	20	60	56.6	27.5	5	3.1
LEN0200-080-45FS	20	80	76.7	36.7	4.5	3.1
LEN0200-100-30FS	20	100	98	46	3	1.9
LEN0250-124-34JGS1	25	124.5		57.3	3.42	2.04
LEN0254-030-100FS	25.4	30	23.1	13.8	10	1.53
LEN0254-35R1-82FS	25.4	35.1	29.5	16.1	8.2	2
LEN0254-40R1-71FS	25.4	40.1	35.3	18.4	7.1	2
LEN0254-50R2-58FS	25.4	50.2	46.2	23	5.8	2
LEN0254-060-46FS	25.4	60	56.8	27.5	4.6	1.49
LEN0254-75R3-44FS	25.4	75.3	72.2	34.5	4.4	2
LEN0254-100-38FS	25.4	100.3	97.7	46	3.8	2
LEN0254-125-34FS	25.4	125.4	123.1	57.5	3.4	2
LEN0254-150-32FS	25.4	150.5	148.4	69	3.2	2
LEN0254-175-30FS	25.4	175.6	173.6	80.5	3	2
LEN0254-200-29FS	25.4	200.7	198.7	92	2.9	2
LEN0254-250-27FS	25.4	250.9	249	115	2.7	2
LEN0254-301-26FS	25.4	301.1	299.3	138	2.6	2
LEN0254-400-24FS	25.4	400	398.3	183.39	2.44	2
LEN0254-501-24FS	25.4	501.8	500.2	230	2.4	2
LEN0254-600-30FS	25.4	600	597.9	275.1	3	2.7
LEN0254-752-22FS	25.4	752.6	751.1	345.1	2.2	2
LEN0254-1003-50FS	25.4	1003	1002	460.1	5	2
LEN0255-1003-22FS	25.5	1003	1002	460.1	2.2	2
LEN0508-60R2-198FS	50.8	60.2	46.6	27.6	19.8	3
LEN0508-75R3-142FS	50.8	75.3	65	34.3	14.2	3
LEN0508-100-107FS	50.8	100	93	46	10.7	3
LEN0508-125-80FS	50.8	125	119.5	57.5	8	2.1
LEN0508-150-78FS	50.8	150.5	145.1	69	7.8	3
LEN0508-175-70FS	50.8	175	170.2	80	7	2.9
LEN0508-200-66FS	50.8	200.7	196.2	92	6.6	3
LEN0508-250-90FS	50.8	250.9	246.9	115	9	3
LEN0508-301-54FS	50.8	301.1	297.4	138	5.4	3
LEN0508-400-60FS	50.8	400	395.9	184	6	4.2
LEN0508-501-44FS	50.8	501.8	498.7	230	4.4	3
LEN0508-600-50FS	50.8	600	596.6	276.1	5	3.8
LEN0508-752-39FS	50.8	752.6	750	345.1	3.9	3
LEN0508-800-50FS	50.8	800	796.6	368.1	5	4.1
LEN0508-1003-37FS	50.8	1003	1000	460.1	3.7	3

