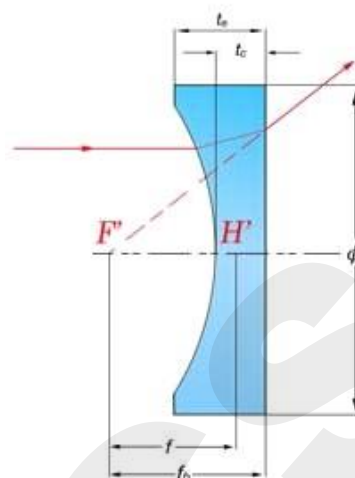


# K9 Plano Concave Lens

## 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:** 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)
LEN2040-M005-15	4	-5	-6	-2.582	1.5	2.45
LEN2040-M6R3-15	4	-6.3	-7.3	-3.253	1.5	2.19
LEN2040-M010-15	4	-10	-11	-5.17	1.5	1.9
LEN2063-M008-15	6.3	-8	-9	-4.13	1.5	2.96
LEN2063-M010-15	6.3	-10	-11	-5.17	1.5	2.57
LEN2063-M12R5-15	6.3	-12.5	-13.5	-6.46	1.5	2.32
LEN2063-M016-15	6.3	-16	-17	-8.26	1.5	2.12
LEN2063-M016-16	6.3	-16	-17	-8.26	1.6	2.12
LEN2063-M020-15	6.3	-20	-21	-10.33	1.5	1.99
LEN2063-M025-15	6.3	-25	-26	-12.91	1.5	1.89
LEN2063-M040-15	6.3	-40	-41	-20.65	1.5	1.71
LEN2100-M12R5-15	10	-12.5	-13.5	-6.46	1.5	3.87
LEN2100-M016-15	10	-16	-17	-8.26	1.5	3.19
LEN2100-M020-15	10	-20	-21	-10.327	1.5	2.79
LEN2100-M025-15	10	-25	-26	-12.91	1.5	2.51
LEN2100-M31R5-15	10	-31.5	-32.5	-16.27	1.5	2.29
LEN2100-M040-15	10	-40	-41	-20.65	1.5	2.11
LEN2100-M050-15	10	-50	-51.1	-25.84	1.5	1.99
LEN2100-M063-15	10	-63	-64	-32.5	1.5	1.89
LEN2100-M100-15	10	-100	-101	-51.64	1.5	1.74
LEN2127-M63R5-20	12.7	-63.5		-32.94	2	
LEN2160-M020-15	16	-20	-21	-10.33	1.5	5.29
LEN2160-M025-15	16	-25	-26	-12.91	1.5	4.22
LEN2160-M31R5-15	16	-31.5	-32.5	-16.27	1.5	3.6
LEN2160-M040-15	16	-40	-41	-20.65	1.5	3.11
LEN2160-M050-15	16	-50	-51.7	-25.84	1.5	2.77
LEN2160-M063-15	16	-63	-64	-32.5	1.5	2.5
LEN2160-M080-15	16	-80	-81	-41.3	1.5	2.28
LEN2160-M100-15	16	-100	-101	-51.64	1.5	2.12



## K9 Plano Concave Lens

Part Number	Diameter (mm)	Focal Length (f mm)	Back Focal Length (fb mm)	R1 (mm)	Center Thickness (Tc mm)	Edge Thickness (Te mm)
LEN2160-M160-15	16	-160	-161	-82.62	1.5	1.89
LEN2200-M050-21	20	-50	-51.4	-25.84	2.1	4.11
LEN2250-M25R4-20	25	-25.4	-26.8	-13.11	2	11.16
LEN2250-M31R5-20	25	-31.5	-32.9	-16.27	2	7.86
LEN2250-M040-20	25	-40	-41	-20.65	2	6.21
LEN2250-M050-20	25	-50	-51.4	-25.84	2	5.22
LEN2250-M063-20	25	-63	-64.3	-32.5	2	4.5
LEN2250-M080-20	25	-80	-81.3	-41.3	2	3.94
LEN2250-M100-20	25	-100	-101.3	-51.64	2	3.54
LEN2250-M125-20	25	-125	-126.3	-64.55	2	3.22
LEN2250-M160-20	25	-160	-161.3	-82.62	2	2.95
LEN2250-M200-20	25	-200	-201.3	-103.28	2	2.75
LEN2250-M250-20	25	-250	-251.4	-129.13	2	2.61
LEN2250-M400-20	25	-400	-400.5	-206.1	2	2.38
LEN2250-M500-20	25	-500	-501.3	-258.18	2	2.3
LEN2250-M1000-20	25	-1000	-1001	-516.5	2	2.15
LEN2250-M600-20	25	-600	-501.3	-258.18	2	2.3
LEN2340-M170-33	34	-170	-172.5	-88	3.25	4.91
LEN2400-M050-25	40	-50	-51.7	-25.84	2.5	11.98
LEN2400-M063-25	40	-63	-64.6	-32.5	2.5	9.38
LEN2400-M080-25	40	-80	-81.7	-41.3	2.5	7.57
LEN2400-M100-25	40	-100	-101.7	-51.64	2.5	6.53
LEN2400-M125-25	40	-125	-126.7	-64.55	2.5	5.68
LEN2400-M160-25	40	-160	-161.7	-82.62	2.5	4.96
LEN2400-M200-25	40	-200	-201.6	-103.28	2.5	4.46
LEN2400-M250-25	40	-250	-251.9	-129.24	2.5	4.06
LEN2400-M500-25	40	-500	-501.6	-258.18	2.5	3.28
LEN2450-M150-30	45	-150	-152	-77.52	3	6.34
LEN2500-M063-30	50	-63	-65	-32.5	3	14.73
LEN2500-M080-30	50	-80	-82	-41.3	3	11.43
LEN2500-M100-30	50	-100	-102	-51.64	3	9.45
LEN2500-M160-30	50	-160	-162	-82.62	3	6.87
LEN2500-M250-30	50	-250	-252.3	-129.24	3	5.11
LEN2500-M500-30	50	-500	-502	-258.18	3	4.21
LEN0500-M100-50	50	-100	-103.3	-51.68	5	11.04



## K9 Plano Concave Lens

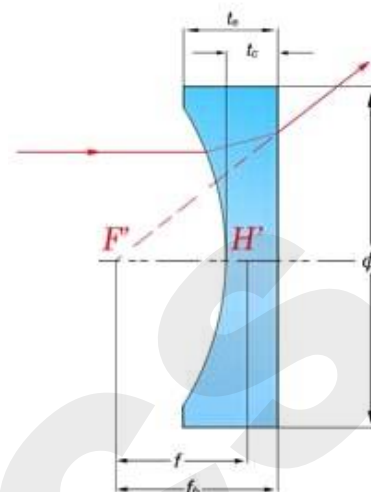
Part Number	Diameter (mm)	Focal Length (f mm)	Back Focal Length (fb mm)	R1 (mm)	Center Thickness (Tc mm)	Edge Thickness (Te mm)
LEN0500-M125-50	50	-125	-128.3	-64.6	5	9.72
LEN0750-M150-50	75	-150	-153.3	-77.78	5	14.63
LEN0750-M200-50	75	-200	-203.3	-103.7	5	12.01
LEN01000-M200-60	100	-200	-204	-103.7	6	18.85
LEN01000-M250-60	100	-250	-204	-129.63	6	16.03
LEN01000-M300-62	100	-300	-304.1	-155.56	6.2	14.45
LEN01000-M400-82	100	-400	-405.4	-207.4	8.2	14.32
LEN01000-M500-80	100	-500	-505.3	-259.26	8	12.87
LEN01000-M600-96	100	-600	-606.4	-311.11	9.6	13.64
LEN01250-M300-42	125	-300	-302.8	-155.56	4.2	17.3
LEN01250-M400-56	125	-400	-403.7	-207.4	5.6	15.24
LEN01250-M500-60	125	-500	-504.6	-259.26	6	13.64
LEN01250-M600-90	125	-600	-606.4	-311.11	9	15.34
LEN01250-M700-84	125	-700	-705.6	-362.96	8.4	13.82
LEN01250-M800-96	125	-800	-806.4	-414.82	9.6	14.34
LEN01500-M400-50	150	-400	-403.3	-207.41	5	19.03
LEN01500-M500-62	150	-500	-504.2	-259.26	6.2	17.29
LEN01500-M600-75	150	-600	-605	-311.11	7.5	16.68
LEN01500-M700-90	150	-700	-705.8	-362.96	9	16.83
LEN01500-M800-80	150	-800	-805.3	-414.82	8	14.84
LEN02000-M500-66	200	-500	-504.4	-259.26	6.57	26.63
LEN02000-M600-78	200	-600	-605.2	-311.11	7.8	24.31
LEN02000-M700-92	200	-700	-706.1	-362.96	9.2	23.25
LEN02000-M800-105	200	-800	-807	-414.82	10.5	22.73
LEN02000-M900-118	200	-900	-907.8	-466.67	11.8	22.64
LEN02000-M1000-131	200	-1000	-1008	-518.52	13.1	22.83
LEN02500-M700-60	250	-700	-704	-362.96	6	28.2
LEN02500-M800-69	250	-800	-804.6	-414.82	6.9	26.18
LEN02500-M900-80	250	-900	-905.3	-466.67	8	25.05
LEN02500-M1000-95	250	-1000	-1006	-518.52	9.5	28.45
LEN02500-M1100-120	250	-1100	-1107	-570.37	12	25.87
LEN02500-M1200-150	250	-1200	-1209	-622.63	15	27.69
LEN13000-M1000-100	300	-1000	-1006	-518.52	10	32.17
LEN23000-M1200-120	300	-1200	-1207	-622.63	12	30.35
LEN33000-M1400-140	300	-1400	-1409	-725.93	14	29.67
LEN43000-M1600-160	300	-1600	-1610	-829.64	16	29.67



# SiO<sub>2</sub> Plano Concave 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)
LEN2040-M6R3-15FS	4	-6.3	-7.4	-2.89	1.5	2.3
LEN2040-M010-16FS	4	-10	-11.1	-4.58	1.55	2
LEN2040-M015-17FS	4	-15	-16.2	-6.88	1.71	2
LEN2040-M020-18FS	4	-20	-21.3	-9.17	1.78	2
LEN2063-M010-10FS	6.3	-10	-10.7	-4.58	1	2.25
LEN2063-M12R5-15FS	6.3	-12.5	-13.7	-5.73	1.5	2.44
LEN2063-M015-15FS	6.3	-15	-16.1	-6.88	1.5	2.26
LEN2063-M020-15FS	6.3	-20	-21.1	-9.17	1.5	2.06
LEN2063-M025-15FS	6.3	-25	-26.1	-11.46	1.5	1.94
LEN2063-M040-20FS	6.3	-40	-41.4	-18.34	2	2.27
LEN2063-M050-20FS	6.3	-50	-51.4	-22.92	2	2.22
LEN2100-M12R5-15FS	10	-12.5	-13.6	-5.73	1.5	10
LEN2100-M015-15FS	10	-15	-16.1	-6.88	1.5	10
LEN2100-M020-15FS	10	-20	-21.1	-9.17	1.5	10
LEN2100-M025-15FS	10	-25	-26.1	-11.46	1.5	10
LEN2100-M040-15FS	10	-40	-41.1	-18.34	1.5	10
LEN2100-M050-15FS	10	-50	-51.1	-22.92	1.5	10
LEN2127-M020-15FS	12.7	-20	-21.1	-9.17	1.5	4.05
LEN2127-M025-15FS	12.7	-25	-26.1	-11.46	1.5	3.42
LEN2127-M030-15FS	12.7	-30	-31.1	-13.75	1.5	3.05
LEN2127-M040-15FS	12.7	-40	-41.1	-18.34	1.5	2.63
LEN2127-M060-15FS	12.7	-60	51	-22.92	1.5	2.4
LEN2127-M100-17FS	12.7	-100	-101.1	-45.85	1.7	2.14
LEN2200-M100-30FS	20	-100	-102	-46	3	4.1
LEN2254-M035-20FS	25.4	-35	-36.4	-16.06	2	8.24
LEN2254-M040-15FS	25.4	-40	-41.1	-18.34	1.5	6.61
LEN2254-M050-20FS	25.4	-50	51.3	-22.92	2	5.84
LEN2254-M075-20FS	25.4	-75	-76.4	-34.39	2	4.43
LEN2254-M100-20FS	25.4	-100	-101.4	-45.85	2	3.79
LEN2254-M150-20FS	25.4	-150	-151.4	-68.77	2	3.18
LEN2254-M175-20FS	25.4	-175	-176.4	-80.23	2	3.01
LEN2254-M200-20FS	25.4	-200	-201.4	-91.7	2	2.88
LEN2254-M250-20FS	25.4	-250	-251.4	-114.62	2	2.77
LEN2254-M400-20FS	25.4	-400	-401.4	-183.39	2	2.44

