

# Glass Aspheric Lens for LASER

Part no	Diameter (mm)	Focal Length (f mm)	NA	Center thickness (Tc mm)	working distance (mm)	CA (mm)	Coating
LENA018-R91-23	1.97	0.91		2.31		1.77	
LENA025-R91-09	2.5	0.91	0.45	0.88	0.45	0.84	1550
LENA025-1R4-07	2.5	1.4	0.52	0.74	1.06	1.44	518
LENA028-05-19	2.8	5	0.2	1.95	4.77	2.6	AR@400-700
LENA030-6R2-35	3	6.2		3.5			633
LENA030-02-20	3	2	0.5	2	1.09	2	780
LENA030-03-20	3	3	0.3	2	3.27	2.65	AR@400-700
LENA030-3R7-15	3	3.77	0.33	1.5	2.99	2.5	635
LENA030-3R7-20	3	3.77		2			
LENA030-3R8-15	3	3.8	0.3	1.5	2.8	2.5	AR@400-700
LENA030-4R5-18	3	4.5	0.3	1.79	3.46	2.7	633
LENA030-05-15	3	5	0.25	1.53	4.03	2.6	915
LENA030-06-15	3	6	0.22	1.5	5.2	0.27	635
LENA030-06-15	3	6	0.22	1.5	5.2	2.4	AR@400-700
LENA030-06-15	3	6		1.5			633
LENA036-6R2-35	3.6	6.2		3.5			
LENA038-1R2-13	3.75	1.18	0.4/0.16	1.3	1.1/3.77	1.3	1550
LENA040-04-20	4	4	0.4/0.16	2	2.92	3.2	405
LENA040-7R2-22	4	7.2	0.21	2.2	5.81	3.5	AR@635nm
LENA040-7R2-22	4	7.2		2.2			635
LENA045-2R8-22	4.5	2.75	0.64	2.24	1.5	3.6	830
LENA045-08-20	4.5	8	0.22	2	6.73	3.5	915
LENA047-6R2-35	4.7	6.2		3.5			633
LENA047-6R2-35	4.7	6.2	0.25	3.5	3.96	4.1	AR@400-700
LENA047-08-29	4.7	8	0.25	2.9	5.86	4.2	AR@400-700
LENA047-08-29	4.7	8		2.9			530
LENA050-04-30	5	4.05		3			445
LENA050-04-30	5	4.05		3			
LENA050-6R2-35	5	6.2	0.27	3.5	3.96	4.2	AR@400-700
LENA050-10-20	5	10	0.28	2	8.43	5	AR@400-700
LENA055-8R8-24	5.5	8.8	0.25	2.4	7.3	4.6	635
LENA056-04-28	5.6	4	0.55	2.8	2.76	5.6	AR@400-700
LENA060-3R4-25	6	3.35	0.72	2.5	1.96	5	830
LENA060-04-28	6	4	0.55	2.8	2.76	5.6	AR@400-700
LENA060-4R5-28	6	4.5	0.48	2.8	2.72	5.2	AR@400-700
LENA060-08-23	6	8	0.26	2.3	6.55	5.8	AR@400-700
LENA060-08-20	6	8		2			530
LENA060-10-23	6	10	0.28	2.25	8.43	5.2	AR@400-700
LENA060-10-20	6	10		2			635
LENA060-10-20	6	10		2			520



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LENA060-12-20	6.00	12.00	0.18	2.00	10.74	5.60	AR@400-700
LENA060-12-25	6.00	12.00		2.50			532
LENA060-12-20	6.00	12.00		2.00			530
LENA060-15-21	6.00	15.00	0.15	2.10	13.64	5.60	AR@400-700
LENA060-15-21	6.00	15.00		2.10			
LENA062-7R5-25	6.17	7.50		2.45			
LENA063-04-31	6.33	4.05	0.63	3.10	2.80	5.20	445
LENA063-04-30	6.33	4.05		3.00			445
LENA064-08-20	6.35	8.00		2.00			635
LENA064-10-23	6.35	10.00	0.28	2.25	8.43	5.60	AR@400-700
LENA064-10-30	6.35	10.00	0.27	3.00	8.26	5.40	786.5
LENA065-8R9-24	6.50	8.90	0.30	2.36	7.55	5.30	635
LENA065-12-24	6.50	12.00	0.21	2.36	10.55	5.00	635
LENA067-8R9-24	6.65	8.90	0.30	2.36	7.55	5.33	635
LENA070-08-23	7.00	8.00	0.20	2.30	5.67	6.50	AR@400-700
LENA070-12-24	7.00	12.00	0.21	2.36	10.55	5.00	635
LENA072-6R2-54	7.20	6.24	0.40	5.36	3.44	5.00	780
LENA075-7R5-23	7.50	7.50	0.20	2.30	7.00	6.80	AR@635nm
LENA080-11-26	8.00	11.00	0.18	2.60	9.86	7.60	AR@400-700
LENA080-11-26	8.00	11.00		2.60			
LENA080-11R2-27	8.00	11.20	0.30	2.66	9.70	6.80	635
LENA080-22R6-24	8.00	22.62	0.15	2.35	21.28	7.00	532
LENA085-15-25	8.50	15.00		2.50			530
LENA095-24-24	9.50	24.06	0.16	2.35	22.77	7.80	785
LENA100-16R7-32	10.00	16.70	0.27	3.23	14.65	8.80	976
LENA100-19-31	10.00	19.00	0.23	3.14	17.00	8.80	915
LENA105-15R3-30	10.50	15.25	0.30	3.00	13.55	9.00	639
LENA150-11R3-70	15.00	11.25	0.62	7.00	6.84	13.50	587.6
LENA170-35-47	17.00	35.00	0.21	4.62	32.08	15.00	635
LENA200-47-40	20.00	47.00	0.15	3.95	14.50	19.00	AR@400-700



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Part Number	Diameter (mm)	Focal Length (f mm)	R(mm)	Center thickness (Tc mm)	Edge Thickness (Te mm)
LENA030-006-15	3	6	-	1.5	-
LENA030-6R2-35	3	6.2	-	3.5	-
LENA040-7R2-22	4	7.2	-	2.2	-
LENA047-008-29	4.7	8	-	2.9	-
LENA047-6R2-35	4.7	6.2	-	3.5	-
LENA060-008-20	6	8	-	2	-
LENA060-010-20	6	10	-	2	-
LENA060-012-20	6	12	-	2	-
LENA060-012-25	6	12	-	2.5	-
LENA063-4R1-30	6.33	4.05	-	3	-
LENA063-008-20	6.35	8	-	2	-
LENA085-015-25	8.5	15	-	2.5	-
LENA160-22R8-50	16	22.82	-	5	1.41
LENA180-12R8-80	18	12.753	20.63	8	1.65
LENA180-13R5-91	18	13.54	-	9.07	2.71
LENA180-14R1-80	18	14.16	22	8	1.83
LENA200-13R5-91	20	13.54	-	9.07	1
LENA210-20R2-75	21	20.15	-	7.5	1.15
LENA214-20R2-75	21.4	20.15	-	7.5	1.15
LENA220-17R3-82	22	17.34	19.687	8.16	1.5
LENA230-21R1-91	23	21.1	-	9.1	1.2
LENA230-24R5-70	23	24.5	-	7	1.51
LENA254-19R8-100	25.4	19.76	-	10	1.58
LENA260-11R7-134	26	11.778	-	13.4	2.66
LENA260-16R8-115	26	16.89	27.107	11.5	1.54
LENA260-16R9-102	26	16.89	27.11	10.15	1.54
LENA260-20R9-150	26	20.95	-46	15	3.05
LENA260-31R4-65	26	31.43	-	6.47	1.52
LENA260-34R4-65	26	34.434	-	6.47	1.52
LENA270-16R6-127	27	16.68	-38	12.7	2.07
LENA290-17R3-140	29	17.28	-35	13.95	1
LENA291-31R6-84	29.1	31.6	-	8.4	1.4
LENA299-12R7-31	29.9	-12.74	-	3.1	9.5
LENA299-M12R7-31	29.9	-12.74	-	3.1	9.5



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Part Number	Diameter (mm)	Focal Length (f mm)	R(mm)	Center thickness (Tc mm)	Edge Thickness (Te mm)
LENA300-52R3-75	30	52.395		7.5	3.24
LENA300-52R4-75	30	52.4	-	7.5	3.24
LENA300-90R2-32	30	90.24	-	3.21	1.47
LENA310-20R5-149	31	20.58	-55	14.88	2.38
LENA310-20R6-149	31	20.58	-43.35	14.88	2.38
LENA317-27R8-145	31.67	27.75	-42.842	14.5	2.09
LENA320-18R5-130	32	18.49	-60	13	2.23
LENA328-90R7-40	32.8	90.741		4	2.02
LENA328-96R9-40	32.8	96.939		4	2.02
LENA330-53R9-55	33	53.91	-	5.49	2
LENA340-24R3-165	34	24.26	-55	16.5	1.82
LENA340-24R2-165	34	24.26	-60	16.5	1.82
LENA340-30R4-165	34	30.49	-55	16.5	1.82
LENA360-24R5-195	36	24.57	54.36	19.5	2.5
LENA360-27R7-195	36	27.71		19.5	2.5
LENA360-28R2-195	36	28.27		19.5	1.98
LENA360-37R6-112	36	37.6	93.3	11.2	2.16
LENA380-49R4-122	38	49.38	-	12.15	1.75
LENA400-39R1-112	40	39.12		11.2	2.46
LENA410-203R9-65	41	203.98	80	6.5	1.91
LENA420-34R8-174	42	34.76	134.417	17.35	3
LENA420-43-130	42	43		13	2.29
LENA440-46-115	44	46	134.417	11.5	2.09
LENA440-62R4-85	44	62.38	-	8.5	2.08
LENA450-49R9-130	45	49.92		13	1.9
LENA450-50-120	45	50.06	70.324	12	2.18
LENA480-24R5-167	48	24.46	70.324	16.72	1.97
LENA480-31-150	48	31.03	80	15	2.04
LENA480-31R5-166	48	31.5	73.429	16.64	2
LENA480-35R6-152	48	35.6	73.95	15.2	1.92
LENA480-45R3-130	48	45.3		13	2.51
LENA480-56R3-125	48	56.28	-	12.47	3.34
LENA500-36R6-167	50	36.64	90	16.73	2.27
LENA500-41R9-165	50	41.89	-	16.5	2
LENA500-48R4-191	50	48.4	-	19.05	2
LENA500-70-201	50	70	-132.5	20.14	2.98
LENA500-144-80	50	144.88	523.69	8	3.3
LENA500-146-60	50	146.3		6.03	2
LENA530-54R7-142	53	54.737	88.131	14.2	2
LENA530-59R3-130	53	59.34	78.68	13	2.05



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LENA560-63R2-140	56	63.21	108.219	14	2.44
LENA590-48R1-290	59	48.1	-87	29	2
LENA640-423-120	63.6	423.95	352	12	12.12
LENA720-52R4-288	72	52.48		28.8	3.38
LENA750-83R8-360	75	83.75	-88.636	36	13.44
LENA800-76R2-258	80	76.28	139.998	25.87	4.1
LENA800-115-174	80	115.97	117.14	17.49	4
LENA830-92R4-215	83	92.49	113.84	21.5	2.04
LENA890-161-177	89	161.34	-231.5	17.72	2.9
LENA900-102-222	90	102.79	600	22.2	2.92
LENA920-69R7-314	92	69.66	-	31.39	2
LENA970-180-153	97	180.33	353.33	15.34	2.91
LENA1000-126-217	100	126.96	270	21.72	2.46
LENA1120-176-208	112	176.43		20.8	2.99
LENA1120-151-236	112	151.94	1100	23.63	3
LENA1280-293-176	128	293		17.59	4
LENA1300-355-134	130	355.06	740	13.43	2.5
LENA1300-211-243	130	211.38	-	24.3	5.45



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Part Number	Outer Diameter (mm)	Inner Diameter (mm)	Focal Length (f mm)	Center thickness (Tc mm)	Edge Thickness (Te mm)	Surface Type
LENA070-011-20-PMMA-1	7	/	11	2	/	Type 1
LENA76-010-23-PMMA-1	7.6	7.2	10	2.25	0.7	Type 1
LENA080-012-23-PMMA-1	8	/	12	2.3	/	Type 1
LENA085-011-22-PMMA-1	8.5	/	11	2.2	/	Type 1
LENA85-008-28-PMMA-1	8.5	7.8	7.5	2.8	1	Type 1
LENA090-006-27-PMMA-1	9	7	6	2.7	1	Type 1
LENA100-014-27-PMMA-1	10	/	14	2.7	/	Type 1
LENA100-010-30-PMMA-1	10	9	10	3	1	Type 1
LENA100-006-30-PMMA-1	10	7.8	6	3	1.1	Type 1
LENA100-007-45-PMMA-1*	10	/	7	4.5	1.4	Type 1
LENA107-012-27-PMMA-1	10.7	9.9	12	2.7	0.8	Type 1
LENA108-030-27-PMMA-1	10.8	9.5	30	2.7	0.73	Type 1
LENA110-013-25-PMMA-1	11	8.6	13	2.5	1	Type 1
LENA110-024-20-PMMA-1	11	9.9	24	2	1	Type 1
LENA120-009-49-PMMA-1	12	8.9	9	4.85	1.5	Type 1
LENA125-008-45-PMMA-1	12.5	11.4	8	4.5	1.2	Type 1
LENA125-010-37-PMMA-1	12.5	11	10	3.7	1	Type 1
LENA130-025-23-PMMA-1	13	12	25	2.3	0.8	Type 1
LENA130-005-50-PMMA-1	13	10.9	5	5	1	Type 1
LENA130-009-52-PMMA-1*	13	/	9	5.2	1.6	Type 1
LENA135-023-27-PMMA-1	13.5	12	23	2.65	1	Type 1
LENA140-012-38-PMMA-1	14	12	12	3.8	1	Type 1
LENA140-010-45-PMMA-1	14	13	10	4.5	0.9	Type 1
LENA145-027-27-PMMA-1	14.5	13	27	2.65	1	Type 1
LENA145-010-88-PMMA-1	14.5	/	10	8.8	/	Type 1
LENA150-033-25-PMMA-1	15	13.5	33	2.5	1	Type 1
LENA150-020-38-PMMA-1	15	14.5	20	3.75	1	Type 1
LENA150-009-56-PMMA-1	15	13.1	9	5.6	1.2	Type 1
LENA150-032-25-PMMA-1	15	14	32	2.5	1	Type 1
LENA157-012-49-PC	15.7	14.8	12	4.9	1	Type 1
LENA160-023-37-PMMA-1	16	/	23	3.7	/	Type 1
LENA160-014-50-PMMA-1	16	14.8	14	5	1.2	Type 1

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LENA160-020-65-PMMA-1*	16	/	20	6.5	3	Type 1
LENA160-00-77-PMMA-1	16	14.8	/	7.7	2.6	Type 1
LENA170-028-32-PMMA-1	17	16	28	3.2	0.8	Type 1
LENA170-010-62-PMMA-1	17	15.8	10	6.2	1.4	Type 1
LENA175-015-42-PMMA-1	17.5	14	15	4.2	1.4	Type 1
LENA180-015-54-PMMA-1	18	14	15	5.4	1.85	Type 1
LENA180-018-68-PMMA-1*	18	/	18	6.8	2.5	Type 1
LENA180-018-84-PMMA-1	18	17	18	8.4	4.5	Type 1
LENA183-043-31-PMMA-1*	18.3	/	43	3.1	/	Type 1
LENA193-033-32-PMMA-1	19.3	18	33	3.2	0.9	Type 1
LENA193-017-56-PMMA-1	19.3	17.6	17	5.6	1.5	Type 1
LENA193-00-56-PMMA-3	19.3	17.6	/	5.6	1.5	Type 3
LENA193-030-42-PMMA-1	19.3	17.6	30	4.2	1.5	Type 1
LENA193-00-42-PMMA-2	19.3	17.6	/	4.2	1.5	Type 2
LENA200-034-27-PMMA-1	20	14.5	34	2.66	1	Type 1
LENA200-017-57-PMMA-1	20	17.4	16.5	5.7	1.5	Type 1
LENA200-00-56-PMMA-7	20	17.4	/	5.6	1.5	Type 7
LENA200-00-56-PMMA-3	20	17.4	/	5.6	1.5	Type 3
LENA205-012-80-PMMA-1	20.5	18.5	12	8	1.85	Type 1
LENA208-022-73-PMMA-1	20.8	19.5	22	7.3	1	Type 1
LENA208-041-30-PMMA-1	20.8	17.8	41	3	1	Type 1
LENA210-025-48-PMMA-1	21	18	25	4.8	1.6	Type 1
LENA225-016-80-PMMA-1	22.5	20.5	16	8	2	Type 1
LENA230-016-80-PMMA-1	23	21	16	8	1.7	Type 1
LENA230-00-80-PMMA-5	23	21	/	8	1.7	Type 5
LENA230-00-80-PMMA-4	23	21	/	8	1.7	Type 4
LENA230-00-80-PMMA-2	23	21	/	8	1.7	Type 2
LENA230-00-80-PMMA-3	23	21	/	8	1.7	Type 3
LENA230-00-80-PMMA-6	23	21	/	8	1.7	Type 6
LENA230-00-80-PMMA-7	23	21	/	8	1.7	Type 7
LENA238-026-59-PMMA-1	23.8	21	26	5.9	1.7	Type 1
LENA250-050-46-PMMA-1*	25	/	50	4.6	/	Type 1
LENA250-051-45-PMMA-1	25	23	51	4.5	1.8	Type 1
LENA250-018-104-PMMA-1*	25	/	18	10.4	3.2	Type 1
LENA269-018-108-PMMA-1	26.9	17.8	18	10.8	2.3	Type 1
LENA270-050-56-PMMA-1	27	25	50	5.57	1.1	Type 1
LENA277-019-86-PMMA-1	27.7	25.8	19	8.6	1.4	Type 1
LENA277-029-63-PMMA-1	27.7	25.8	29	6.3	1.4	Type 1
LENA277-047-48-PMMA-1	27.7	25	47	4.75	1.45	Type 1

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LENA277-00-86-PMMA-2	27.7	25.8	/	8.6	1.4	Type 2
LENA277-00-86-PMMA-7	27.7	25.8	/	8.6	1.4	Type 7
LENA280-090-38-PMMA-1*	28	/	90	3.8	/	Type 1
LENA285-015-82-PMMA-1	28.5	20.6	15	8.2	2	Type 1
LENA287-045-54-PMMA-1	28.7	25.7	45	5.4	1.4	Type 1
LENA290-027-85-PMMA-1	29	27.5	27	8.5	1.5	Type 1
LENA290-00-85-PMMA-2	29	27.5	/	8.5	1.5	Type 2
LENA300-088-38-PMMA-1	30	/	88	3.8	/	Type 1
LENA300-025-81-PMMA-1	30	26.5	25	8.1	1.6	Type 1
LENA310-027-125-PMMA-1	31	29.3	27	12.5	2	Type 1
LENA310-00-102-PMMA-2	31	28.5	/	10.2	1	Type 2
LENA330-037-76-PMMA-1	33	29.5	36.5	7.6	1.6	Type 1
LENA335-080-50-PMMA-1	33.5	/	80	5	/	Type 1
LENA336-00-103-PMMA-3	33.6	31	/	10.3	1.45	Type 3
LENA337-032-133-PMMA-1	33.7	31.8	32	13.3	3	Type 1
LENA350-038-98-PMMA-1	35	33	38	9.75	2	Type 1
LENA350-028-113-PMMA-1	35	32	28	11.3	2.1	Type 1
LENA360-040-98-PMMA-1	36	33	40	9.8	2.1	Type 1
LENA370-053-84-PMMA-1	37	35	53	8.4	2.5	Type 1
LENA380-032-100-PMMA-1	38	33	32	10	2.3	Type 1
LENA380-00-100-PMMA-3	38	33	/	10	2.3	Type 3
LENA400-023-153-PMMA-1	40	35.3	23	15.3	2.5	Type 1
LENA448-063-100-PMMA-1	44.8	41.8	63	10	1.15	Type 1
LENA450-036-143-PMMA-1	45	42	36	14.3	2.1	Type 1
LENA483-00-100-PMMA-3	48.3	38	/	10	1.5	Type 3
LENA484-081-100-PMMA-1*	48.35	/	81	10	2	Type 1
LENA484-00-100-PMMA-2*	48.35	/	/	10	2	Type 2
LENA484-00-100-PMMA-3*	48.35	/	/	10	2	Type 3
LENA493-036-146-PMMA-1	49.3	44	36	14.6	2	Type 1
LENA600-045-192-PMMA-1	60	57.7	45	19.2	2.3	Type 1
LENA600-085-122-PMMA-1*	60	/	85	12.2	2.1	Type 1
LENA600-037-260-PMMA-1*	60	/	37	26	3	Type 1
LENA640-052-200-PMMA-1	64	58.5	52	20	3.2	Type 1
LENA680-220-100-PMMA-1	68	60.5	220	10	3.2	Type 1
LENA725-00-222-PMMA-2	72.5	64.2	/	22.2	3	Type 2
LENA26x19-008-139-PMMA	26*19	21*19	8	13.9	2.4	Type 1



Note: \* means the lens without step

# Surface pictures of Types

## Type 1



Convex Surface    Plano Surface

## Type 2



Convex Surface    Plano Surface

## Type 3



Convex Surface    Plano Surface

## Type 4



Convex Surface    Plano Surface

## Type 5



Convex Surface    Plano Surface

## Type 6



Convex Surface    Plano Surface

## Type 7



Convex Surface    Plano Surface

