Mounted Aspheric Lenses Catalog (MAB Series)

Precision Molded Glass Aspheres in Metric Threaded Barrels (ISO 965-1 6g) · 47 Series / 541 Active Configurations · 405–1550 nm · 2026 Edition

No.	Series P/N	Bare Lens	OD (mm)	EFL (mm)	WD (mm)	NA	λd (nm)	LW (mm)	Threads (×0.5 6g)	Length (mm)	Recess (mm)	Cfgs	Retention	BBAR (R<1%) / V-coat (0.25%)	LD Options
1	**MAB-D0150-F0185-W515**	AL-D0150-F0185-W515	1.50	1.85	1.39	0.32	515	BK7, t=0.4	**M12 / M9 / M7**	4–4.8	0.23–1.02	12	UV/GP/RR/BL/IJ	400–700 nm / 515 nm	ams-Osram PL 520 (TO-38); Sharp (TO-38)
2	**MAB-D0300-F0200-W780**	AL-D0300-F0200-W780	3.00	2.00	1.09	0.50	780	BK7, t=0.25	**M12 / M9 / M7**	4.6–5.1	0.24–0.74	12	UV/GP/RR/BL/IJ	650–1050 nm / 780 nm	Ushio HL7802MG (TO-56); Sony 780 nm (TO-56)
3	**MAB-D0300-F0220-W520**	AL-D0300-F0220-W520	3.00	2.20	1.292	0.55	520	BK7, t=0.25	**M12 / M9 / M7**	4.45–4.9	0.21–0.64	12	UV/GP/RR/BL/IJ	400–700 nm / 520 nm	ams-Osram PLT5 520B (TO-56); Nichia NDG7xxx green (TO-56)
4	**MAB-D0300-F0240-W520**	AL-D0300-F0240-W520	3.00	2.40	1.513	0.50	520	BK7, t=0.25	**M12 / M9 / M7**	4.65–5.15	0.2–0.7	12	UV/GP/RR/BL/IJ	400–700 nm / 520 nm	ams-Osram PLT5 520B (TO-56); Nichia NDG7xxx green (TO-56)
5	**MAB-D0300-F0320-W633**	AL-D0300-F0320-W633	3.00	3.20	2.09	0.37	633	-	**M12 / M9 / M7**	5.65–6.35	0.2–0.89	12	UV/GP/RR/BL/IJ	400–700 nm / 633 nm	Ushio HL6320G (TO-56); Raybow 633–638 nm red (COS)
6	**MAB-D0300-F0376-W635**	AL-D0300-F0376-W635	3.00	3.76	2.98	0.33	635	BK7, t=0.25	**M12 / M9 / M7**	6–6.6	0.24–0.83	12	UV/GP/RR/BL/IJ	400–700 nm / 635 nm	Sharp GH0631IA2GC (TO-56); Ushio HL63583DG (TO-56)
7	**MAB-D06325-F0390-W780**	AL-D06325-F0390-W780	6.325	3.90	2.70	0.50	780	BK7, t=1.2	**M12 / M10**	7.25–7.75	0.24–0.71	9	UV/GP/RR/BL/IJ	650–1050 nm / 780 nm	Sony 780 nm (TO-56); Ushio HL7802MG (TO-56)
8	**MAB-D0400-F0400-W405**	AL-D0400-F0400-W405	4.00	4.00	2.91	0.40	405	BK7, t=0.25	**M12 / M9 / M7**	6.4–6.85	0.23–0.66	12	UV/GP/RR/BL/IJ	400–700 nm / 405 nm	Nichia NDV4316E (TO-5.6); Ushio HL40023MG (TO-5.6)
9	**MAB-D06325-F0402-W408**	AL-D06325-F0402-W408	6.325	4.02	2.41	0.60	408	BK7, t=0.25	**M12 / M10**	6.8–7.3	0.2–0.69	9	UV/GP/RR/BL/IJ	400–700 nm / 408 nm	Nichia NDV (TO-5.6); Ushio HL401xx (TO-5.6)
10	**MAB-D0633-F0405-W445**	AL-D0633-F0405-W445	6.33	4.05	2.80	0.63	445	PC, t=1.2	**M12 / M10**	7.4–7.65	0.21–0.46	9	UV/GP/RR/BL/IJ	400–700 nm / 445 nm	ams-Osram PLPT5 447KA (TO-56); Nichia NDB4116 (TO-38)
11	**MAB-D0542-F0447-W780**	AL-D0542-F0447-W780	5.42	4.47	3.08	0.47	780	PC, t=1.2	**M12 / M9**	8–8.7	0.2–0.9	9	UV/GP/RR/BL/IJ	650–1050 nm / 780 nm	Sony 780 nm (TO-56); Ushio HL7802MG (TO-56)
12	**MAB-D0300-F0450-W633**	AL-D0300-F0450-W633	3.00	4.50	3.46	0.30	633	BK7, t=0.25	**M12 / M9 / M6**	4.15–7.35	0.22–0.84	12	UV/GP/RR/BL/IJ	400–700 nm / 633 nm	Ushio HL6320G (TO-56); Raybow 633–638 nm red (COS)
13	**MAB-D06325-F0450-W1550**	AL-D06325-F0450-W1550	6.325	4.50	2.82	0.60	1550	-	**M12 / M10**	7.15–7.5	0.22–0.58	9	UV/GP/RR/BL/IJ	1050–1620 nm / 1550 nm	Lumentum 1550 nm FP (Coaxial); Accelink 1550 nm FP (Coaxial)
14	**MAB-D0300-F0470-W633**	AL-D0300-F0470-W633	3.00	4.70	3.50	0.25	633	-	**M12 / M9 / M6**	4.35–7.65	0.2–0.88	12	UV/GP/RR/BL/IJ	400–700 nm / 633 nm	Ushio HL6320G (TO-56); Raybow 633–638 nm red (COS)
15	**MAB-D0300-F0500-W915**	AL-D0300-F0500-W915	3.00	5.00	4.03	0.26	915	-	**M12 / M9 / M6**	4.55–7.8	0.22–0.88	12	UV/GP/RR/BL/IJ	650–1050 nm / 915 nm	nLight element e-series 915 nm (C-mount); Coherent 915 nm …
16	**MAB-D0200-F0500-W1550**	AL-D0200-F0500-W1550	2.00	5.00	4.37	0.15	1550	-	**M12 / M9 / M5**	4.35–7.8	0.21–1.07	12	UV/GP/RR/BL/IJ	1050–1620 nm / 1550 nm	Lumentum 1550 nm FP (Coaxial); Accelink 1550 nm FP (Coaxial)
17	**MAB-D0300-F0600-W635**	AL-D0300-F0600-W635	3.00	6.00	5.20	0.21	635	BK7, t=0.25	**M12 / M9 / M6**	5.6–8.95	0.22–0.95	12	UV/GP/RR/BL/IJ	400–700 nm / 635 nm	Sharp GH0631IA2GC (TO-56); Ushio HL63583DG (TO-56)
18	**MAB-D0279-F0613-W1550**	AL-D0279-F0613-W1550	2.79	6.13	4.90	0.18	1550	-	**M12 / M9 / M6**	5.8–9.2	0.22–0.99	12	UV/GP/RR/BL/IJ	1050–1620 nm / 1550 nm	Lumentum 1550 nm FP (Coaxial); Accelink 1550 nm FP (Coaxial)
19	**MAB-D0470-F0616-W780**	AL-D0470-F0616-W780	4.70	6.16	4.37	0.30	780	BK7, t=0.275	**M12 / M9 / M8**	8–9.6	0.2–1.04	14	UV/GP/RR/BL/IJ	650–1050 nm / 780 nm	Ushio HL7802MG (TO-56); Sony 780 nm (TO-56)
20	**MAB-D0720-F0624-W780**	AL-D0720-F0624-W780	7.20	6.24	3.43	0.40	780	BK7, t=0.275	**M12 / M9 / M10**	9.6–11.15	0.23–1.14	13	UV/GP/RR/BL/IJ	650–1050 nm / 780 nm	Ushio HL7802MG (TO-56); Sony 780 nm (TO-56)
21	**MAB-D0635-F0643-W830**	AL-D0635-F0643-W830	6.35	6.43	4.70	0.43	830	BK7, t=0.25	**M12 / M9 / M10**	9.05–9.95	0.21–0.87	14	UV/GP/RR/BL/IJ	650–1050 nm / 830 nm	Ushio HL8338MG (TO-56); Thorlabs LD830 (TO-56)
22	**MAB-D0650-F0750-W830**	AL-D0650-F0750-W830	6.50	7.50	5.96	0.36	830	BK7, t=0.275	**M12 / M9 / M10**	9.6–10.6	0.24–1.09	14	UV/GP/RR/BL/IJ	650–1050 nm / 830 nm	Ushio HL8338MG (TO-56); Thorlabs LD830 (TO-56)
23	**MAB-D09936-F0800-W780**	AL-D09936-F0800-W780	9.94	8.00	5.90	0.50	780	BK7, t=0.25	**M12 / M9 / M14**	9.95–10.85	0.2–0.22	14	UV/GP/RR/BL/IJ	650–1050 nm / 780 nm	Ushio HL7802MG (TO-56); Sony 780 nm (TO-56)
24	**MAB-D0450-F0800-W915**	AL-D0450-F0800-W915	4.50	8.00	6.73	0.22	915	-	**M12 / M9 / M7**	7–9.6	0.2–0.75	12	UV/GP/RR/BL/IJ	650–1050 nm / 915 nm	nLight element e-series 915 nm (C-mount); Coherent 915 nm …
25	**MAB-D0800-F0842-W635**	AL-D0800-F0842-W635	8.00	8.42	7.05	0.37	635	BK7, t=0.25	**M12 / M9 / M11**	9.6–10.45	0.2–1.05	14	UV/GP/RR/BL/IJ	400–700 nm / 635 nm	Sharp GH0631IA2GC (TO-56); Ushio HL63583DG (TO-56)

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26	**MAB-D0550-F0880-W635**	AL-D0550-F0880-W635	5.50	8.80	7.35	0.26	635	-	**M12 / M9**	9.6–10.6	0.23–1.22	9	UV/GP/RR/BL/IJ	400–700 nm / 635 nm	Sharp GH0631IA2GC (TO-56); Ushio HL63583DG (TO-56)
27	**MAB-D0650-F0895-W635**	AL-D0650-F0895-W635	6.50	8.95	7.60	0.30	635	BK7, t=0.25	**M12 / M9 / M10**	9.6–10.6	0.23–1.23	14	UV/GP/RR/BL/IJ	400–700 nm / 635 nm	Sharp GH0631IA2GC (TO-56); Ushio HL63583DG (TO-56)
28	**MAB-D0635-F1000-W520**	AL-D0635-F1000-W520	6.35	10.00	8.20	0.275	520	BK7, t=0.25	**M12 / M9 / M10**	9.6–11.1	0.2–1.3	14	UV/GP/RR/BL/IJ	400–700 nm / 520 nm	ams-Osram PLT5 520B (TO-56); Nichia NDG7xxx green (TO-56)
29	**MAB-D0635-F1000-W635**	AL-D0635-F1000-W635	6.35	10.00	8.29	0.28	635	BK7, t=0.25	**M12 / M9 / M10**	9.6–11.05	0.23–1.3	14	UV/GP/RR/BL/IJ	400–700 nm / 635 nm	Sharp GH0631IA2GC (TO-56); Ushio HL63583DG (TO-56)
30	**MAB-D0720-F1099-W633**	AL-D0720-F1099-W633	7.20	10.99	7.90	0.28	633	BK7, t=0.25	**M12 / M9 / M10**	9.6–13.2	0.22–1.37	13	UV/GP/RR/BL/IJ	400–700 nm / 633 nm	Ushio HL6320G (TO-56); Raybow 633–638 nm red (COS)
31	**MAB-D0800-F1118-W635**	AL-D0800-F1118-W635	8.00	11.18	9.69	0.31	635	BK7, t=0.25	**M12 / M9 / M11**	9.6–10.65	0.21–1.21	14	UV/GP/RR/BL/IJ	400–700 nm / 635 nm	Sharp GH0631IA2GC (TO-56); Ushio HL63583DG (TO-56)
32	**MAB-D0650-F1206-W635**	AL-D0650-F1206-W635	6.50	12.06	10.61	0.22	635	BK7, t=0.25	**M12 / M9 / M10**	9.6–10.8	0.22–1.38	14	UV/GP/RR/BL/IJ	400–700 nm / 635 nm	Sharp GH0631IA2GC (TO-56); Ushio HL63583DG (TO-56)
33	**MAB-D0700-F1270-W915**	AL-D0700-F1270-W915	7.00	12.70	11.24	0.27	915	-	**M12 / M9 / M10**	9.6–10.7	0.2–1.25	14	UV/GP/RR/BL/IJ	650–1050 nm / 915 nm	nLight element e-series 915 nm (C-mount); Coherent 915 nm ...
34	**MAB-D06325-F1385-W650**	AL-D06325-F1385-W650	6.325	13.85	12.10	0.18	650	-	**M12 / M9 / M10**	9.6–11.1	0.23–1.53	14	UV/GP/RR/BL/IJ	400–700 nm / 650 nm	Ushio HL6501MG family (TO-56); Sony 650 nm red (TO-56)
35	**MAB-D0800-F1500-W915**	AL-D0800-F1500-W915	8.00	15.00	13.47	0.23	915	-	**M12 / M9 / M11**	9.6–10.8	0.2–1.4	14	UV/GP/RR/BL/IJ	650–1050 nm / 915 nm	nLight element e-series 915 nm (C-mount); Coherent 915 nm ...
36	**MAB-D1000-F1500-W915**	AL-D1000-F1500-W915	10.00	15.00	12.90	0.30	915	-	**M12 / M14**	11–12	0.2–0.9	9	UV/GP/RR/BL/IJ	650–1050 nm / 915 nm	nLight element e-series 915 nm (C-mount); Coherent 915 nm ...
37	**MAB-D1050-F1526-W639**	AL-D1050-F1526-W639	10.50	15.26	13.58	0.30	639	BK7, t=0.3	**M12 / M14**	10.95–11.75	0.24–0.95	9	UV/GP/RR/BL/IJ	400–700 nm / 639 nm	Ushio HL63 (TO-56); Mitsubishi ML562G85 (TO-9)
38	**MAB-D0650-F1529-W780**	AL-D0650-F1529-W780	6.50	15.29	13.89	0.16	780	-	**M12 / M9 / M10**	9.6–10.95	0.24–1.59	14	UV/GP/RR/BL/IJ	650–1050 nm / 780 nm	Ushio HL7802MG (TO-56); Sony 780 nm (TO-56)
39	**MAB-D1000-F1670-W976**	AL-D1000-F1670-W976	10.00	16.70	14.65	0.265	976	-	**M12 / M14**	11–12.1	0.21–1.07	9	UV/GP/RR/BL/IJ	650–1050 nm / 976 nm	Coherent 976 nm pump (C-mount); nLight 976 nm pump (C-m...
40	**MAB-D0650-F1839-W780**	AL-D0650-F1839-W780	6.50	18.39	17.09	0.15	780	BK7, t=0.25	**M12 / M9 / M10**	9.6–11	0.22–1.62	14	UV/GP/RR/BL/IJ	650–1050 nm / 780 nm	Ushio HL7802MG (TO-56); Sony 780 nm (TO-56)
41	**MAB-D1000-F1900-W915**	AL-D1000-F1900-W915	10.00	19.00	17.00	0.23	915	-	**M12 / M14**	11–12.15	0.2–1.21	9	UV/GP/RR/BL/IJ	650–1050 nm / 915 nm	nLight element e-series 915 nm (C-mount); Coherent 915 nm ...
42	**MAB-D0800-F2258-W532**	AL-D0800-F2258-W532	8.00	22.58	21.25	0.15	532	BK7, t=0.25	**M12 / M9 / M11**	9.6–11.1	0.22–1.69	14	UV/GP/RR/BL/IJ	400–700 nm / 532 nm	CNI MGL-III-532 series (DPSS module); Cobolt 06-01 Samba 5...
43	**MAB-D1200-F2400-W915**	AL-D1200-F2400-W915	12.00	24.00	22.09	0.23	915	-	**M18**	13	0.2–0.23	5	UV/GP/RR/BL/IJ	650–1050 nm / 915 nm	nLight element e-series 915 nm (C-mount); Coherent 915 nm ...
44	**MAB-D0950-F2406-W785**	AL-D0950-F2406-W785	9.50	24.06	22.76	0.16	785	BK7, t=0.25	**M12 / M14**	10.35–11.75	0.25–1.65	9	UV/GP/RR/BL/IJ	650–1050 nm / 785 nm	Ushio HL78002MG (TO-56); Thorlabs LD785-SE (TO-56)
45	**MAB-D1600-F3000-W915**	AL-D1600-F3000-W915	16.00	30.00	28.10	0.24	915	-	**M20**	14–14.4	0.2–0.59	5	UV/GP/RR/BL/IJ	650–1050 nm / 915 nm	nLight element e-series 915 nm (C-mount); Coherent 915 nm ...
46	**MAB-D0930-F3199-W785**	AL-D0930-F3199-W785	9.30	31.99	30.73	0.122	785	BK7, t=0.3	**M12 / M14**	10.25–11.8	0.2–1.75	9	UV/GP/RR/BL/IJ	650–1050 nm / 785 nm	Ushio HL78002MG (TO-56); Thorlabs LD785-SE (TO-56)
47	**MAB-D1250-F3199-W785**	AL-D1250-F3199-W785	12.50	31.99	30.729	0.17	785	BK7, t=0.3	**M18**	13	0.21–0.28	5	UV/GP/RR/BL/IJ	650–1050 nm / 785 nm	Ushio HL78002MG (TO-56); Thorlabs LD785-SE (TO-56)

Mechanical & Ordering Notes: External metric fine threads cut to **ISO 965-1 6g** (0.5 mm pitch → 1.39 µm axial focus travel per degree of rotation). Standard barrel materials: **Al 6061-T6 (black anodized)** or **Brass CuZn35Pb1 / CW600N (black oxide)** for burnished-lip versions. **Retention Codes: UV** = UV adhesive 3×120° fillet; **GP** = Side glue pockets; **RR** = Threaded retaining ring; **BL** = Adhesive-free burnished brass lip; **IJ** = Side-port epoxy injection. **Recess** denotes output lens vertex setback behind the front barrel face for scratch protection. **LD Options** are representative OEM laser diodes matched by wavelength and window/package type; confirm cap height, window thickness (LW), and beam divergence vs. lens NA against each diode datasheet. Full dimensioned section drawings (541 active parametric SVGs) and printable datasheets for every barrel configuration are available at **www.aspherics.com/mounted-aspheric-lenses**.

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