

Overview Plastic Collimating Lenses

	CAY033	CAX183	CAX100	CAY033/40	CSX122	CAW110	CAY046/55	CDW042/52	CAW100	CAY046
VIAOPTIC Part No	099-099-001-001	099-099-001-002	099-099-001-003	099-099-001-004	099-099-001-005	099-099-001-006	099-099-001-007	099-099-001-008	099-099-001-009	099-099-001-0010
Lenstype	Bi-aspherical	Mono-aspherical	Mono-aspherical	Bi-aspherical	Mono-aspherical	Mono-aspherical	Bi-aspherical	Mono-aspherical	Mono-aspherical	Bi-aspherical
Outer Diameter D [mm]	Ø 7,40	Ø 6,28	Ø 6,28	Ø 4,00	Ø 6,28	Ø 6,28	Ø 5,50	Ø 5,20	Ø 5,20	Ø 7,40
Thickness lens h [mm]	3,05	2,44	2,44	3,00	2,44	2,44	3,05	3,00	2,52	2,70
N.A.	0,40	0,12	0,20	0,38	0,12	0,26	0,37	0,25	0,20	0,40
Clear Aperture CA [mm]	2,7	4,3	4,1	2,5	3	4,1	3,4	2,1	3,4	3,7
Wavelength [mm]	670 785	670 785	670	670	670 785	670	670 780	670	785	670 785
Focal Length [mm]	3,30 3,32	18,15 18,33	10,00	3,35	12,10 12,22	10,92	4,60 4,64	4,24	9,85	4,60 4,64
Back Focal Length BFL [mm]	2,08 2,10	17,51 17,69	9,22	2,07	11,38 11,50	10,19	3,18 3,20	3,57	-	3,18 3,20
Free Working Distance FWD	1,98 2,00	16,30 16,48	8,48	1,97	10,35 10,47	10,11	2,98 3,00	3,08	-	3,08 3,10
RMS Wavefront [mλ] on axis	40	30	80	40	95	50	40	50	50	40
RMS Wavefront [mλ] total	65	35	90	65	95	-	-	-	-	-
Field Radius [mm]	0,05	0,30	0,20	0,05	0,30	-	0,10	0,10	0,15	0,10
Storage Temperature [°C]	-25 to 70	-25 to 100	-25 to 100	-25 to 70	-25 to 100	< 90	-25 to 70	< 90	< 90	-25 to 70
Operating Temperature [°C]	5 to 65	-10 to 75	-10 to 75	5 to 65	-10 to 75	-20 to 80	5 to 65	-20 to 80	-20 to 80	5 to 65