

Overview Plastic Collimating Lenses

	CAX183		CAX100	CAY033/40	CSX122		CAW110	CAY046/55		CDW042/52	CAW100	CAY046	
Lenstype	Mono-aspherical		Mono-aspherical	Bi-aspherical	Mono-aspherical		Mono-aspherical	Bi-aspherical		Mono-aspherical	Mono-aspherical	Bi-aspherical	
Outer Diameter D [mm]	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]	2,44		2,44	3,00	2,44		2,44	3,05		3,00	2,52	2,70	
N.A.	0,12		0,20	0,38	0,12		0,26	0,37		0,25	0,20	0,40	
Clear Aperture CA [mm]	4,3		4,1	2,5	3		4,1	3,4		2,1	3,4	3,7	
Wavelength [nm]	670	785	670	670	670	785	670	670	780	670	785	670	785
Focal Length [mm]	18,15	18,33	10,00	3,35	12,10	2,22	10,92	4,60	4,64	2,24	9,85	4,60	4,64
Back Focal Length BFL [mm]	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	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	30		80	40	95		50	40		50	50	40	
RMS Wavefront [mλ] total	35		90	65	95		-	-		-	-	-	
Field Radius [mm]	0,30		0,20	0,05	0,30		-	0,10		0,10	0,15	0,10	
Storage Temperature [°C]	-25 to 100		-25 to 100	-25 to 70	-25 to 100		< 90	-25 to 70		< 90	< 90	-25 to 70	
Operating Temperature [°C]	-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	

Revision Date: 20.05.2019