

OVERVIEW PLASTIC COLLIMATING LENSES



	CAY033		CAX183		CAX100	CAY033/40
VIAOPTIC Part No	099-099-001-001		099-099-001-002		099-099-001-003	099-099-001-004
Material	PMMA		PC		PC	PMMA
Lenstype	Bi-aspherical		Mono-aspherical		Mono-aspherical	Bi-aspherical
Outer Diameter D [mm]	Ø 7.40		Ø 6.28		Ø 6.28	Ø 4.00
Thickness lens h [mm]	3.05		2.44		2.44	3.00
N.A.	0.40		0.12		0.20	0.38
Clear Aperture Ca [mm]	2.7		4.3		4.1	2.5
Wavelength [nm]	670	785	670	785	670	670
Focal Length [mm]	3.30	3.32	18.15	18.33	10.00	3.30
Back Focal Length BFL [mm]	1.99	2.01	17.52	17.69	9.21	1.99
Free Working Distance FWD	1.89	1.91	16.29	16.46	8.48	1.84
RMS Wavefront [mλ] on axis	40		30		80	40
RMS Wavefront [mλ] total	65		35		90	65
Field Radius [mm]	0.05		0.30		0.20	0.05
Storage Temperature [°C]	-25 to 70		-25 to 100		-25 to 75	-25 to 70
Operating Temperature [°C]	5 to 65		-10 to 75		-10 to 75	5 to 65
Delivery Time	Minimum order quantity. Delivery time on request.		Goods are available at short notice.		Goods are available at short notice.	Goods are available at short notice.

Specifications subject to change without notice.

OVERVIEW PLASTIC COLLIMATING LENSES



	CAW110	CAY046/55		CDW042/52	CAW100
VIAOPTIC Part No	099-099-001-006	099-099-001-007		099-099-001-008	099-099-001-009
Material	COP	PMMA		COP	COP
Lenstype	Mono-spherical	Bi-spherical		Mono-spherical	Spherical-aspherical
Outer Diameter D [mm]	Ø 6.28	Ø 5.50		Ø 5.20	Ø 5.20
Thickness lens h [mm]	2.44	3.05		3.00	2.52
N.A.	0.26	0.35		0.25	0.20
Clear Aperture Ca [mm]	4.1	3.4		2.1	3.4
Wavelength [nm]	670	670	785	670	785
Focal Length [mm]	10.92	4.60	4.62	4.24	10.00
Back Focal Length BFL [mm]	10.19	3.18	3.20	3.57	8.59
Free Working Distance FWD	9.3	2.98	3.00	3.08	8.49
RMS Wavefront [mλ] on axis	50	40		50	50
RMS Wavefront [mλ] total	-	-		-	-
Field Radius [mm]	-	0.10		0.10	0.15
Storage Temperature [°C]	< 90	-25 to 70		< 90	< 90
Operating Temperature [°C]	-20 to 80	5 to 65		-20 to 80	-20 to 80
Delivery Time	Goods are available at short notice.	Goods are available at short notice.		Goods are available at short notice.	Goods are available at short notice.

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OVERVIEW PLASTIC COLLIMATING LENSES



	CAY046		CAS183	
VIAOPTIC Part No	099-099-001-010		099-099-001-013	
Material	PMMA		SAN	
Lenstype	Bi-aspherical		Mono-aspherical	
Outer Diameter D [mm]	Ø 7.40		Ø 6.28	
Thickness lens h [mm]	3.05		2.44	
N.A.	0.40		0.12	
Clear Aperture Ca [mm]	3.7		Ø 4.3	
Wavelength [nm]	670	785	670	785
Focal Length [mm]	4.60	4.62	18.70	18.86
Back Focal Length BFL [mm]	3.18	3.20	18.06	18.22
Free Working Distance FWD	3.08	3.10	16.83	16.99
RMS Wavefront [mλ] on axis	40		30	
RMS Wavefront [mλ] total	-		-	
Field Radius [mm]	0.10		0.3	
Storage Temperature [°C]	-25 to 70		-25 to 70	
Operating Temperature [°C]	5 to 65		0 to 60	
Delivery Time	Goods are available at short notice.		Minimum order quantity. Delivery time on request.	

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