

OVERVIEW PLASTIC COLLIMATING LENSES



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



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

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OVERVIEW PLASTIC COLLIMATING LENSES



	CAY046		CAW060	CAS183	
VIAOPTIC Part No	099-099-001-010		099-099-001-012	099-099-001-013	
Material	PMMA		COP	SAN	
Lenstype	Bi-aspherical		Bi-aspherical	Mono-aspherical	
Outer Diameter D [mm]	Ø 7.40		Ø 5.00	Ø 6.28	
Thickness lens h [mm]	3.05		2.30	2.44	
N.A.	0.40		0.22	0.12	
Clear Aperture Ca [mm]	3.7		2.2	4.3	
Wavelength [nm]	670	785	655	670	785
Focal Length [mm]	4.60	4.62	6.00	18.70	18.86
Back Focal Length BFL [mm]	3.18	3.20	4.82	18.06	18.22
Free Working Distance FWD	3.08	3.10	4.67	16.83	16.99
RMS Wavefront [mλ] on axis	40		30	30	
RMS Wavefront [mλ] total	-		-	-	
Field Radius [mm]	0.10		-	0.3	
Storage Temperature [°C]	-25 to 70		< 90	-25 to 70	
Operating Temperature [°C]	5 to 65		-20 to 80	0 to 60	
Delivery Time	Goods are available at short notice.		Minimum order quantity. Delivery time on request.	Minimum order quantity. Delivery time on request.	

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