

# OVERVIEW PLASTIC COLLIMATING LENSES



	CAX183		CAX100	CAY033/40
<b>VIAOPTIC Part No</b>	<b>099-099-001-002</b>		<b>099-099-001-003</b>	<b>099-099-001-004</b>
<b>Material</b>	PC		PC	PMMA
<b>Lenstype</b>	Mono-aspherical		Mono-aspherical	Bi-aspherical
<b>Outer Diameter D [mm]</b>	Ø 6.28		Ø 6.28	Ø 4.00
<b>Thickness lens h [mm]</b>	2.44		2.44	3.00
<b>N.A.</b>	0.12		0.20	0.38
<b>Clear Aperture Ca [mm]</b>	4.3		4.1	2.5
<b>Wavelength [nm]</b>	670	785	670	670
<b>Focal Length [mm]</b>	18.15	18.33	10.00	3.30
<b>Back Focal Length BFL [mm]</b>	17.52	17.69	9.21	1.99
<b>Free Working Distance FWD</b>	16.29	16.46	8.48	1.84
<b>RMS Wavefront [mλ] on axis</b>	30		80	40
<b>RMS Wavefront [mλ] total</b>	35		90	65
<b>Field Radius [mm]</b>	0.30		0.20	0.05
<b>Storage Temperature [°C]</b>	-25 to 100		-25 to 75	-25 to 70
<b>Operating Temperature [°C]</b>	-10 to 75		-10 to 75	5 to 65
<b>Delivery Time</b>	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
<b>VIAOPTIC Part No</b>	<b>099-099-001-006</b>	<b>099-099-001-007</b>		<b>099-099-001-008</b>	<b>099-099-001-009</b>
<b>Material</b>	COP	PMMA		COP	COP
<b>Lenstype</b>	Mono-spherical	Bi-spherical		Mono-spherical	Spherical-aspherical
<b>Outer Diameter D [mm]</b>	Ø 6.28	Ø 5.50		Ø 5.20	Ø 5.20
<b>Thickness lens h [mm]</b>	2.44	3.05		3.00	2.52
<b>N.A.</b>	0.26	0.35		0.25	0.20
<b>Clear Aperture Ca [mm]</b>	4.1	3.4		2.1	3.4
<b>Wavelength [nm]</b>	670	670	785	670	785
<b>Focal Length [mm]</b>	10.92	4.60	4.62	4.24	10.00
<b>Back Focal Length BFL [mm]</b>	10.19	3.18	3.20	3.57	8.59
<b>Free Working Distance FWD</b>	9.3	2.98	3.00	3.08	8.49
<b>RMS Wavefront [mλ] on axis</b>	50	40		50	50
<b>RMS Wavefront [mλ] total</b>	-	-		-	-
<b>Field Radius [mm]</b>	-	0.10		0.10	0.15
<b>Storage Temperature [°C]</b>	< 90	-25 to 70		< 90	< 90
<b>Operating Temperature [°C]</b>	-20 to 80	5 to 65		-20 to 80	-20 to 80
<b>Delivery Time</b>	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	
<b>VIAOPTIC Part No</b>	<b>099-099-001-010</b>		<b>099-099-001-013</b>	
<b>Material</b>	PMMA		SAN	
<b>Lenstype</b>	Bi-aspherical		Mono-aspherical	
<b>Outer Diameter D [mm]</b>	Ø 7.40		Ø 6.28	
<b>Thickness lens h [mm]</b>	3.05		2.44	
<b>N.A.</b>	0.40		0.12	
<b>Clear Aperture Ca [mm]</b>	3.7		Ø 4.3	
<b>Wavelength [nm]</b>	670	785	670	785
<b>Focal Length [mm]</b>	4.60	4.62	18.70	18.86
<b>Back Focal Length BFL [mm]</b>	3.18	3.20	18.06	18.22
<b>Free Working Distance FWD</b>	3.08	3.10	16.83	16.99
<b>RMS Wavefront [mλ] on axis</b>	40		30	
<b>RMS Wavefront [mλ] total</b>	-		-	
<b>Field Radius [mm]</b>	0.10		0.3	
<b>Storage Temperature [°C]</b>	-25 to 70		-25 to 70	
<b>Operating Temperature [°C]</b>	5 to 65		0 to 60	
<b>Delivery Time</b>	Goods are available at short notice.		Minimum order quantity. Delivery time on request.	

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