

Micro Lenses

other wavelengths.

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Biconcave Lenses

Kit **Reasonable Lens**

Cylindrical

Others



parallel beams, i.e., at infinite conjugate ratios.

systems, i.e., at unit conjugate ratios.

SLM

Specifications	
Material	LaSF9, SK2, BK7
Design wavelength	587.6nm
Coating	Uncoated
Centration	Please contact
Surface Quality (Scratch–Dig)	40–20

Guide

In addition to our standard products listed on-line and in the catalog, custom products are available. Please contact our Sales Division for assistance with your request.

Attention

- The micro lenses have spherical aberration and the focal length will vary depending on the wavelength. Please check the "wavelength characteristic of the focal length data" on the Web for the focal lengths of each wavelength. WEB Reference Catalog Code W3072
- The plano convex lenses are designed for parallel light to be incident to the convex surface. Using the lens in reverse may increase the spherical aberration and the focused spot may enlarge and the image will appear out of focus.

Transmissions losses due to reflection off the front and rear surfaces of the lens can be minimized by coating the surfaces. Consult our SalesDivision for anti-reflection coatings suitable for your application.



Outline Drawing





Plano Concave Biconcave to Principal poir φD Principal point fb

Tolerance Diameter $\phi D^{_{+0.2}}_{_{-0.2}}$ Thickness tc ±0.2 Focal length ±5%



Micro lenses are spherical plano convex/biconvex lenses with diameters smaller than 4mm. These small lenses are designed for use in equipment and instruments that demand lighter and smaller footprint optics.

• Spherical plano convex lenses are useful when parallel beams are converged or lights from sources are converted to

Spherical biconvex lenses are useful when lights from sources are converged or images are relayed to other optical

Since these lenses are designed at the wavelength 587.6nm (yellow helium line [d]), the focal lengths of them vary at

B156

RoHS



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Plano Convex							
Part Number	Diameter ¢D [mm]	Focal length f [mm]	Back focal length fb [mm]	Edge thickness te [mm]	Center thickness tc [mm]	Material	Radius of curvature r [mm]
SLM-1.5-01P	φ1.5	1.0	0.56	0.35	0.8	LaSF9	0.85
SLM-1.5-1.5P	φ1.5	1.5	0.44	1.65	1.9	LaSF9	1.25
SLM-02-1.5P	φ2	1.5	0.5	1.4	1.9	LaSF9	1.28
SLM-02-02P	φ2	2.0	1.2	1.2	1.5	LaSF9	1.70
SLM-02-2.5P	φ2	2.5	1.6	1.3	1.6	LaSF9	2.13
SLM-02-03P	φ2	3.0	2.2	1.0	1.3	LaSF9	2.55
SLM-03-2.5P	φ3	2.5	1.4	1.5	2.1	LaSF9	2.13
SLM-03-03P	φ3	3.0	1.9	1.5	2.0	LaSF9	2.55
SLM-03-04P	φ3	4.0	3.3	1.0	1.3	LaSF9	3.40
SLM-03-06P	φ3	6.0	5.1	1.1	1.4	SK2	3.64
SLM-04-04P	φ4	4.0	2.5	1.5	2.5	SK2	2.43
SLM-04-06P	φ4	6.0	5.0	0.7	1.3	SK2	3.64
SLM-04-08P	φ4	8.0	7.1	1.1	1.5	SK2	4.86
SLM-04-10P	φ4	10.0	9.1	1.2	1.5	SK2	6.07

Biconvex							
Part Number	Diameter ¢D [mm]	Focal length f [mm]	Back focal length fb [mm]	Edge thickness te [mm]	Center thickness tc [mm]	Material	Radius of curvature r [mm]
SLM-03B-03P	φ3	3	2.4	1.1	1.8	SK2	3.26
SLM-03B-04P	φ3	4	3.4	1.2	1.8	BK7	3.80
SLM-03B-06P	φ3	6	5.5	1.1	1.5	BK7	5.93
SLM-04B-04P	φ4	4	3.2	1.2	2.2	SK2	4.40
SLM-04B-06P	φ4	6	5.4	1.2	1.9	BK7	5.86
SLM-04B-08P	φ4	8	7.4	1.2	1.7	BK7	7.97

Plano Concave							
Part Number	Diameter ¢D [mm]	Focal length f [mm]	Back focal length fb [mm]	Edge thickness te [mm]	Center thickness tc [mm]	Material	Radius of curvature r [mm]
SLM-02-04N	φ2	-4	-4.40	0.95	0.8	LaSF9	-3.40
SLM-03-06N	φ3	-6	-6.39	1.03	0.8	LaSF9	-5.10
SLM-04-08N	φ4	-8	-8.37	1.10	0.8	LaSF9	-6.80

Biconcave							
Part Number	Diameter φD [mm]	Focal length f [mm]	Back focal length fb [mm]	Edge thickness te [mm]	Center thickness tc [mm]	Material	Radius of curvature r [mm]
SLM-02B-02N	φ2	-2	-2.13	0.99	0.7	LaSF9	-3.50
SLM-04B-04N	φ4	-4	-4.16	1.39	0.8	LaSF9	-6.94

Compatible Optic Mounts

MLH-10, -15