

Cylindrical Lens Array

Pitch 0.8



Features and Advantages

Lens array with cylindrical lenses on one side. Top hat profiles with high homogeneity can be generated in one dimension.

* Product similar to image, see product drawing below.

Product Specifications

Specification Data	Unit	Value
Material		Fused Silica
Length (L)	mm	20.0 ± 0.1
Width (W)	mm	20.0 ± 0.1
Thickness (T)	mm	2.0 ± 0.1
Clear Aperture	mm²	18.0 × 18.0
Refractive Index n @ 248 nm / @ 532 nm / @ 1064nm		1.509 / 1.461 / 1.449
Pitch (P)	mm	0.8
Transmission (without coating)	%	> 90
Protective Chamfer	mm x 45°	NA
Surface Imperfections (DIN ISO 10110-7)		5/ 3×0,1; L1×0,25; E1

Product Code			ZLA001106 ⁽¹⁾	ZLA001105 ⁽¹⁾	ZLA001104	ZLA001103 ⁽¹⁾
Specification Data		Unit	Value			
Radius		mm	4.35 ± 0.13	8.70 ± 0.26	11.1 ± 0.33	16.7 ± 0.50
EFL	@ 248 nm	mm	8.55 ± 0.26	17.1 ± 0.51	21.8 ± 0.65	32.8 ± 0.98
	@ 532 nm	mm	9.44 ± 0.28	18.9 ± 0.57	24.1 ± 0.72	36.3 ± 1.09
	@1064nm	mm	9.67 ± 0.29	19.4 ± 0.58	24.7 ± 0.74	37.1 ± 1.11
Numerical Aperture [p / (2f)]	@ 248 nm		0.0468	0.0234	0.0183	0.0122
	@ 532 nm		0.0424	0.0212	0.0166	0.0110
	@1064nm		0.0414	0.0206	0.0162	0.0108

⁽¹⁾ Example for customization – design and dimensions on request.

1

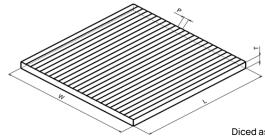


Product Specifications

Product Code			ZLA000487 ⁽¹⁾	ZLA001108 ⁽¹⁾	ZLA001109	ZLA001107 ⁽¹⁾
Specification Data		Unit	Value			
Radius		mm	24.4 ± 0.73	48.0 ± 1.4	78.0 ± 2.3	105.0 ± 3.2
EFL	@ 248 nm	mm	48.0 ± 1.4	94.4 ± 2.8	153.4 ± 4.6	206.5 ± 6.2
Numerical Aperture [p / (2f)]	@ 532 nm	mm	53.0 ± 1.6	104.2 ± 3.1	169.3 ± 5.1	227.9 ± 6.8
	@ 1064nm	mm	54.3 ± 1.6	106.8 ± 3.2	173.5 ± 5.2	233.5 ± 7.0
	@ 248 nm		0.0083	0.0042	0.0026	0.0019
	@ 532 nm		0.0075	0.0038	0.0024	0.0018
	@ 1064nm		0.0074	0.0037	0.0023	0.0017

⁽¹⁾ Example for customization – design and dimensions on request.

Product Drawing (mm)



All rights reserved. Product specifications and descriptions are subject to change. All our products are patent pending. Please contact our sales representatives for complete details.

Diced asymmetrically - symmetric dicing on request

Address: Bookenburgweg 4-8, 44319 Dortmund, Germany

LIMO GmbH Focuslight (Dongguan) Microoptics Co. Ltd.

Address: Room 301, Building 9, 38 Dongke Road, Dongcheng Street, Dongguan, Guangdong, P.R. China Tel: +49 231 22 24 1 - 0 (DE) +86 29 8956 0050 (CN) | Email: sales@focuslight.com | Website: https://www.focuslight.com