

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. ⁽¹⁾

* 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	mm ²	18.0 x 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 ⁽²⁾	ZLA001105 ⁽²⁾	ZLA001104
Specification Data	Unit	Value		
Radius	mm	4.35 ± 0.13	8.70 ± 0.26	11.1 ± 0.33
EFL	@ 248 nm	8.55 ± 0.26	17.1 ± 0.51	21.8 ± 0.65
	@ 532 nm	9.44 ± 0.28	18.9 ± 0.57	24.1 ± 0.72
	@ 1064nm	9.67 ± 0.29	19.4 ± 0.58	24.7 ± 0.74
Numerical Aperture [p / (2f)]	@ 248 nm	0.0468	0.0234	0.0183
	@ 532 nm	0.0424	0.0212	0.0166
	@ 1064nm	0.0414	0.0206	0.0162

⁽¹⁾ Suitable for multi-mode laser sources M² > 20 (approx.)

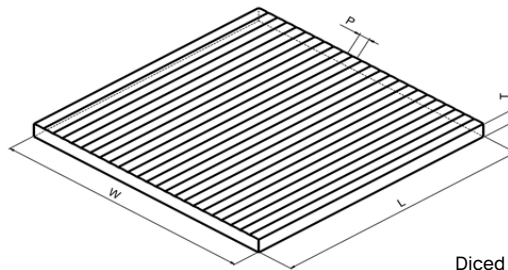
⁽²⁾ Example for customization – design and dimensions on request.

Product Specifications

Product Code			ZLA000487 ⁽²⁾	ZLA001108 ⁽²⁾	ZLA001109	ZLA001107 ⁽²⁾
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
	@ 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
Numerical Aperture [p / (2f)]	@ 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

⁽²⁾ Example for customization — design and dimensions on request.

Product Drawing (mm)



Diced asymmetrically — symmetric dicing on request