

Homogenizer

Pitch 0.5



Features and Advantages

Lens array with cross-oriented cylindrical lenses on both sides.
Top hat profiles with high homogeneity can be generated in both dimensions. ⁽¹⁾

Product Specifications

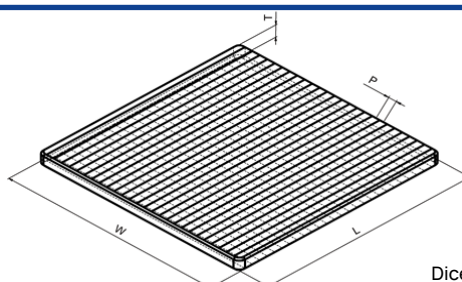
Specification Data	Unit	Value
Material		Fused Silica
Length (L)	mm	12.0 ± 0.1
Width (W)	mm	12.0 ± 0.1
Thickness (T)	mm	2.0 ± 0.1
Clear Aperture	mm ²	10.0 x 10.0
Refractive Index n @ 248 nm / @ 532 nm / @ 1064nm		1.509 / 1.461 / 1.449
Pitch (P)	mm	0.5
Transmission (without coating)	%	> 90
Protective Chamfer	mm x 45°	NA
Surface Imperfections (DIN ISO 10110-7)		5/ 2×0,1; L1×0,25; E1.0

Product Code		ZLA000481	ZLA000238 ⁽²⁾	ZLA000240 ⁽²⁾	ZLA000234 ⁽²⁾	ZLA000485 ⁽²⁾
Specification Data	Unit	Value				
Radius	mm	2.15 ± 0.06	3.50 ± 0.11	5.50 ± 0.17	14.0 ± 0.42	31.3 ± 0.94
EFL	@ 248 nm	4.23 ± 0.13	6.88 ± 0.21	10.8 ± 0.32	27.5 ± 0.83	61.6 ± 1.8
	@ 532 nm	4.67 ± 0.14	7.60 ± 0.23	11.9 ± 0.36	30.4 ± 0.91	67.9 ± 2.0
	@ 1064nm	4.78 ± 0.14	7.78 ± 0.23	12.2 ± 0.37	31.1 ± 0.93	69.6 ± 2.1
Numerical Aperture @ 248 nm		0.0591	0.0363	0.0231	0.0091	0.0041
[p / (2f)]	@ 532 nm	0.0535	0.0329	0.0210	0.0082	0.0037
	@ 1064nm	0.0523	0.0321	0.0204	0.0080	0.0036

⁽¹⁾ Suitable for multi-mode laser sources $M^2 > 20$ (approx.)

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

Product Drawing (mm)



Diced asymmetrically – symmetric dicing on request

Rev 06 | Updated July 16, 2026 | RoHS compliant 2011/65/EU and 2015/863/EU

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