LASER COMPONENTS®

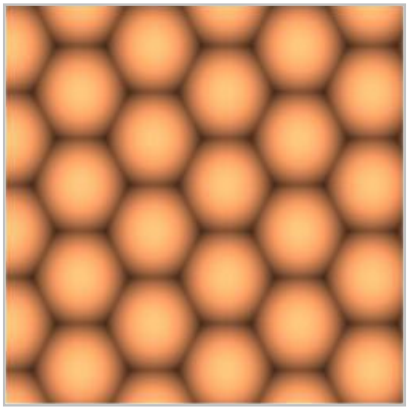
Micro Lens Array

Precise and Efficient Homogenizing Solution

A Micro Lens Array (MLA) contains multiple micro lenses in a square or hexagonal packing. Such arrays are often used for homogenization, beam shaping and coupling into fibers. Holo/Or's MLAs are AR coated to handle high powered lasers, especially those used in medical and industrial applications.

Our advanced fabrication process allows us to offer you tailored high-resolution MLAs with SAG of up to 15 µm, including aspherization, conic constant control, and prism power, all according to your requirements. Our MLAs are offered with various packing – cylindrical, square, rectangle and hexagonal.

For cost sensitive applications we offer polymer on glass (POG) MLA solutions with high durability to environmental conditions, suitable for low and mid-power laser applications.



Micro Lens Array

Features

- Polymer on glass (POG) or Fused silica material
- Compatible with high powered laser systems
- Packing ratio close to 100%
- AR coating

Applications

- Laser homogenizing and shaping
- Laser material processing
- Medical/aesthetic laser treatments
- Hot spot reducer

04/23 / V01 / CH+F / holo-or/micro-lens-array

Germany and Other Countries
Laser Components Germany GmbH
Tel: +49 8142 2864–0
Fax: +49 8142 2864–11
info@lasercomponents.com
www.lasercomponents.com

France
Laser Components S.A.S.
Tel: +33 1 39 59 52 25
Fax: +33 1 39 59 53 50
info@lasercomponents.fr
www.lasercomponents.fr

United Kingdom
Laser Components (UK) Ltd.
Tel: +44 1245 491 499
Fax: +44 1245 491 801
info@lasercomponents.co.uk
www.lasercomponents.co.uk

Micro Lens Array Specs

Materials	Polymer on Glass, Fused silica
Wavelength range	Polymer on Glass: 450 – 1080 nm , Fused silica: 193 – 3300 nm
Size	2 x 2 mm to 100 x100 mm square, 4'', 6'' round wafers
Thickness	1 – 2.3 mm
Arrangement	Round lenses in square, hex, linear grid Square lenses Cylindrical lenses
Packing	~100%
Pitch (µm)	10 – 3000
Sag (µm)	1 – 15
ROC (µm)	30 – 5000 ± 5%
Coating options	AR/AR broadband (VIS + NIR, UV + VIS) or single wavelength as desired/uncoated

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Tel: +33 1 39 59 52 25
Fax: +33 1 39 59 53 50
info@lasercomponents.fr
www.lasercomponents.fr

United Kingdom
Laser Components (UK) Ltd.
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Fax: +44 1245 491 801
info@lasercomponents.co.uk
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