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12 x 12mm, 500µm Pitch, 2.3° Div., Cyl. Microlens Array VIS-NIR



Stock #72-591 **1 In Stock**

- 1 + €608^{.00}

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Volume Pricing	
Qty 1-10	€608,00 each
Qty 11+	€485,00 each
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i Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Lens Array **Type:**

Physical & Mechanical Properties

12.0 x 12.0 ±0.10 **Dimensions (mm):**

5.500 **Radius R (mm):**

Thickness (mm):
2.00 ±0.10

Optical Properties

Effective Focal Length EFL (mm):
12.20 @ 1064nm

Substrate:
[Fused Silica](#) (Corning 7980)

Coating:
VIS-NIR (400-1000nm)

Wavelength Range (nm):
400 - 1000

Coating Specification:
 $R_{\text{abs}} \leq 0.25\% @ 880\text{nm} @ 0^\circ \text{AOI}$
 $R_{\text{avg}} \leq 1.25\% @ 400 - 870\text{nm} @ 0^\circ \text{AOI}$
 $R_{\text{avg}} \leq 1.25\% @ 890 - 1000\text{nm} @ 0^\circ \text{AOI}$

Divergence Angle (°):
2.3 (Full Width)

Pitch (µm):
500.00

Array Type:
Single-Sided

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Certificate of Conformance:
[View](#)

Reach 250:
[Compliant](#)

Product Details

- Generate Non-Gaussian Line Patterns
- Ideal for Light Homogenization
- Excellent Performance from 193nm – 2.5µm

Cylindrical Microlens Arrays are used to homogenize a variety of light sources, including lasers or high power LEDs. Unlike [Square Microlens Arrays](#), which generate spot patterns, Cylindrical Microlens Arrays yield non-gaussian line patterns, and are ideal for welding, drilling, or laser ablation applications from the UV to IR. Cylindrical Microlens Arrays are available uncoated, VIS-NIR, or UV-NIR coated, including options with lenses on a single side for line generation applications or double-sided (with cross-oriented lenses) for beam homogenisation. Additionally, these lenses can be used as fast axis collimators.

Coating Curves