

# 12 x 12mm, 500µm Pitch, 3.7° Div., Cyl. Microlens Array VIS-NIR



Stock **#72-593** 2 In Stock

-

1

+

€608<sup>.00</sup>

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

Product Downloads

General

|       |            |
|-------|------------|
| Type: | Lens Array |
|-------|------------|

Physical & Mechanical Properties

|                  |                   |
|------------------|-------------------|
| Dimensions (mm): | 12.0 x 12.0 ±0.10 |
| Radius R (mm):   | 3.500             |

|                                                                                                                                                                         |                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 2.00 ±0.10                                                                                                                                                              | Thickness (mm):                  |
| Optical Properties                                                                                                                                                      |                                  |
| 7.78 @ 1064nm                                                                                                                                                           | Effective Focal Length EFL (mm): |
| Fused Silica (Corning 7980)                                                                                                                                             | Substrate: □                     |
| VIS-NIR (400-1000nm)                                                                                                                                                    | Coating:                         |
| 400 - 1000                                                                                                                                                              | Wavelength Range (nm):           |
| Coating Specification:<br>R <sub>abs</sub> ≤0.25% @ 880nm @ 0° AOI<br>R <sub>avg</sub> ≤1.25% @ 400 - 870nm @ 0° AOI<br>R <sub>avg</sub> ≤1.25% @ 890 - 1000nm @ 0° AOI |                                  |
| 3.7 (Full Width)                                                                                                                                                        | Divergence Angle (°):            |
| 500.00                                                                                                                                                                  | Pitch (µm):                      |
| Single-Sided                                                                                                                                                            | Array Type:                      |
| Regulatory Compliance                                                                                                                                                   |                                  |
| Compliant                                                                                                                                                               | RoHS 2015:                       |
| View                                                                                                                                                                    | Certificate of Conformance:      |
| Compliant                                                                                                                                                               | Reach 250:                       |

## 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