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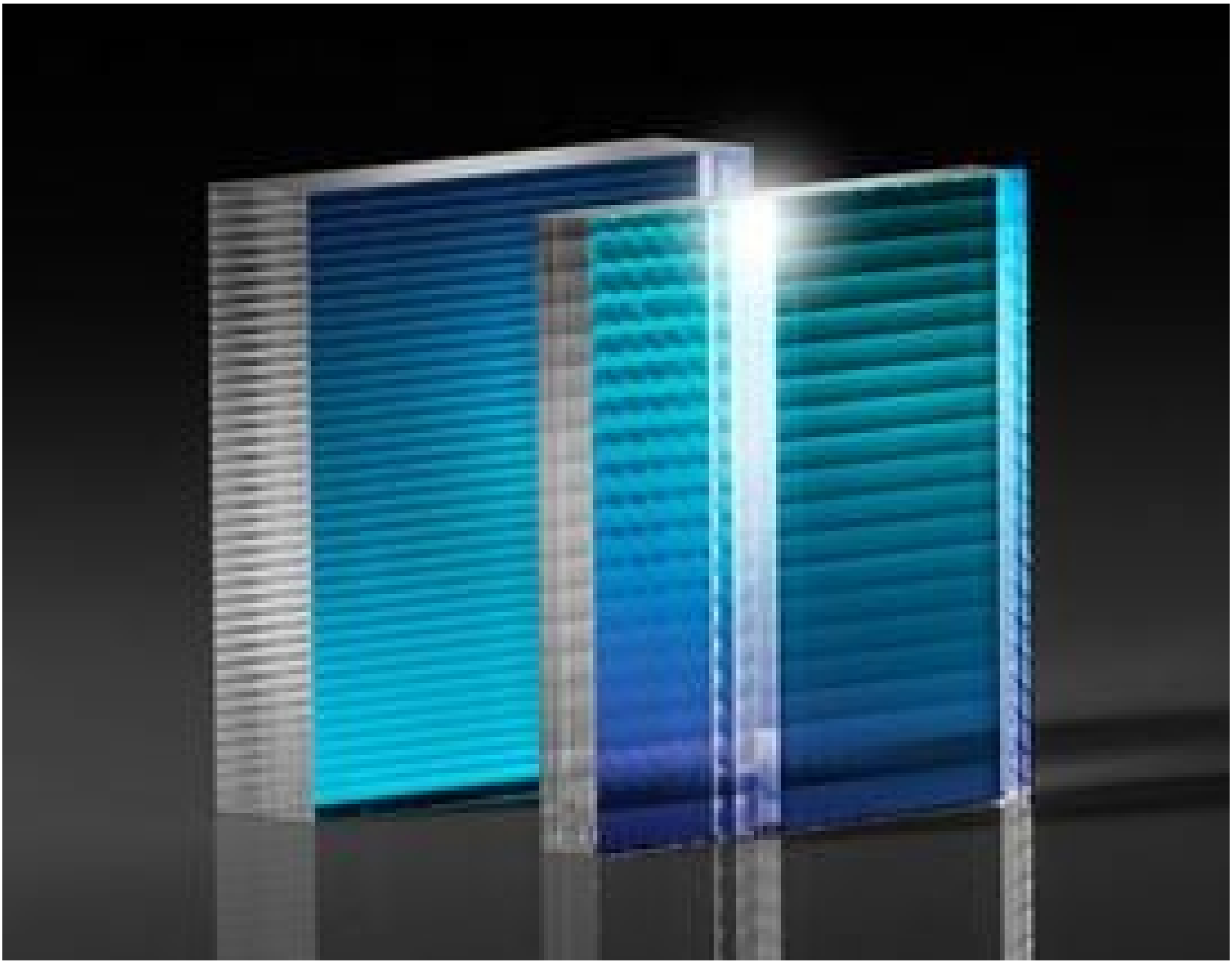
Microlens Array 10 x 10mm, 300µm Pitch, 1.6° Divergence



Microlens Arrays

Stock **#64-476** **8 In Stock**

- 1 + **S$1,153**.00

ADD TO CART

Volume Pricing	
Qty 1-10	**S$1,153.00** each
Qty 11-25	**S$1,015.00** each
Qty 26-49	**S$958.00** each
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General

Type:	Lens Array
Lens Profile:	Spherical
Type of Optics:	Plano-Convex

Fill Factor:
0.983

Physical & Mechanical Properties

Clear Aperture CA (mm):
9.00 x 9.00

Dimensional Tolerance (mm):
±0.05

Dimensions (mm):
10.0 x 10.0

Radius R (mm):
2.35

Thickness (mm):
1.20 ±0.05

Optical Properties

Effective Focal Length EFL (mm):
5.10

Substrate:
Fused Silica (Corning 7980)

Coating:
Uncoated

Wavelength Range (nm):
200 - 2200

Divergence Angle (°):
±1.6

Pitch (µm):
300.00 ±0.25

Regulatory Compliance

RoHS 2015:
Compliant

Reach 219:
Compliant

Certificate of Conformance:
View

Product Details

- Square Lens and Fly's Eye Configurations
- Precision Fused Silica Substrates

Microlens arrays are useful for homogenizing a variety of modern light emitters from line-narrowed excimer lasers to high power LEDs. Microlenses are well suited for applications that require high efficiency and non-gaussian uniformity. All microlens arrays are constructed from UV-grade fused silica, offering exceptional performance from 200nm to 2.5µm. The microlens arrays are manufactured using standard semiconductor technologies, yielding very accurate shaping of the lens profile and precise positioning of the lenses within an array. We offer our arrays in two configurations:

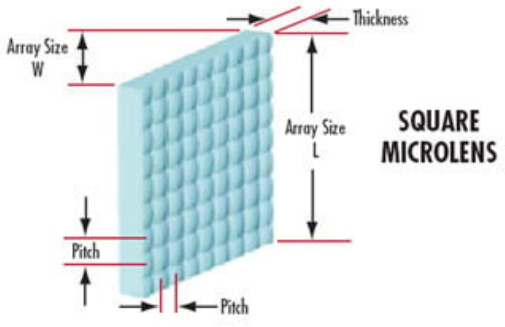
Square Microlens Arrays

Our square arrays are available in a standard 10mm x 10mm configuration in a variety of lens pitch and focal length options. Square microlenses are commonly used for beam homogenization and shaping, yielding spot patterns or a square flat-top pattern. The lenses feature a high fill factor which eliminates zero-order hot spots in the illuminated field. Square lenses are often used in pairs, in conjunction with a PCX lens (see above). Typical applications include welding, drilling, laser ablation, and fiber coupling.

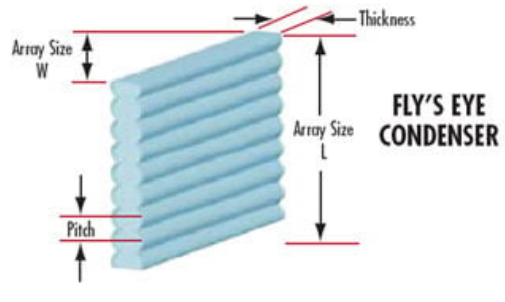
Fly's Eye Condenser Arrays

Our fly's eye condensers arrays are available in 5 and 10mm square configurations, and are designed for flat-top and line generation. The condenser arrays are a monolithic assembly of dual-surface cylindrical microlenses, creating condensers which are completely free of adjustment. These microlenses are commonly used in applications requiring a large illuminated field with a short working distance, such as medical laser use, solar simulation, UV-curing, semiconductor instrumentation and fluorescence microscopy.

Technical Information



SQUARE MICROLENS



FLY'S EYE CONDENSER

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