



Microlens Arrays for Fiber Collimators



Microlens arrays can be used for both collimating a light beam emitted by a fiber or coupling light into a fiber. The numerical aperture of the collimator is optimized for maximum coupling efficiency and the lens shape can be chosen to maximize performance within the system. Jenoptik designs and manufactures custom microlens arrays for fiber collimators to customer specifications. The proprietary process allows active precision alignment of our microlens arrays to fiber pigtailed, providing excellent beam positioning and pointing accuracy.

Features:

- Maximum efficiency
- 2 dimensional and linear fiber arrays
- Aspheric or custom designs
- Active optical alignment
- Off-axis design

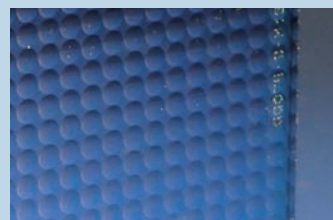
Applications:

- Fiber to the X
- Optical switches
- Mux / Demux / isolators
- Tunable lasers / filters
- Tx / Rx applications
- Modulators / attenuators
- Laser diodes including high power

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Specifications

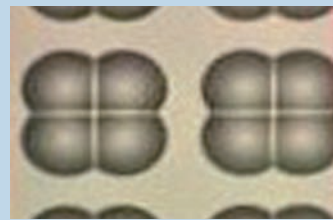
Focal length uniformity:	< 2%
Insertion loss:	< 0.2 dB
Spacing accuracy:	< 0.5 μm
Lens arrangement:	1D, 2D, staggered
Pointing accuracy:	+ 0.05°
Materials:	Fused Silica, Si, Ge, ZnS, ZnSe, GaP, GaAs
AR-Coating:	Laser line or broadband
MWIR and LWIR fibers:	Zirconium fluoride, ZBLAN, and silver halide
Product number:	029145



2D lens array



Off-axis & truncated lens array



Quad lenses



N x N fiber collimator array

It is our policy to constantly improve the design and specifications. Accordingly, the details represented herein cannot be regarded as final and binding.



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