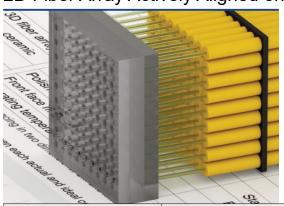




## Fiber Coupled Microlens Array

2D Fiber Array Actively Aligned onto MLA



The manufacture of high-precision customized 2D fiber arrays together with MLA active alignment enables us to offer customized MLAs of high number functional channels with minimum deviating angle error of outgoing light rays.

A choice of suitable MLA is based on the customer requirement for a shape of outgoing light rays, type of fiber and the operating wavelength. The other end of fibers can be connectorized by E2000, LC, SC, FC, ST or by MTP® connectors. MLA with pre-determined fiber length can be housed in a stainless steel flange for easier implementation within targeted application.

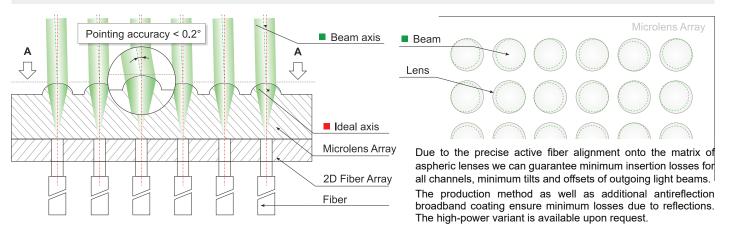
Highlights: Active alignment of optical fibers onto micro-lens array / Minimum tilt of light beam / High accuracy in light beam positioning / Customized fiber layout matrix / fiber types include SM, PM, MM (STEP/GRIN) / Availability of customized MLA housing.

Applications: Optical switching, imaging, sensor systems.

View A

MLA Properties	Single Mode and Multi Mode Version	Polarization Maintaining Version
Size [mm]	12 x 12	12 x 12
Lens arrangement	m × n, hexagonal grid or others	m × n, hexagonal grid or others
Fiber type	MM (Step index or Graded index)	PM fibers (UV/VIS/NIR)
	SM (ITU-T G.652d, G.657a, b)	
Angle misalignment [°]	-	± 1.5 or ± 2.5
Extinction ratio [dB]	-	20, 25, 30
Fiber array / MLA material	Borosilicate glass, fused silica / fused silica, BK7	Borosilicate glass, fused silica / fused silica, BK7
Output connectors	E2000, LC, SC, FC, ST, MTP®	E2000, LC, SC, FC, ST, MTP®
Operating temperature [°C]	-40 to +85	-20 to +70
Beam Properties	Values	<ul> <li>We will propose a solution for you based on the required parameters of the output light beam from the MLA. For the calculation, we need to know following parameters:</li> <li>operating wavelength</li> <li>fiber type</li> <li>working distance</li> <li>beam width</li> </ul>
Wavelength [nm]	850, 980, 1310, 1550 or on request	
Working distance [mm]	Typ. 25 or on request	
Insertion loss [dB]	Тур. 1	
Return loss [dB]	> 50	
Pointing accuracy [°]	Тур. < 0.2	
Beam width [µm]	Typ. 300 or on request	

## Fiber Coupled Microlens Array



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