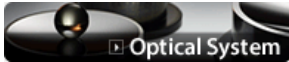



Products Optical System Aspherical Microlens Array

Products Applications



Optical System TOP

What is Aspherical Lens?

Glass Molding Aspherical Lens

Aspherical Microlens Array

Aspherical Cylindrical Lens

Aspherical Cylindrical Lens Array

Molding Glass Toroidal Lens

Ultra Micro Lens

Sumita Image Guide Lens

Sumita Endoscope Lens

Laser Pointer / Laser Line Generator

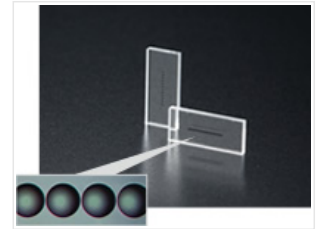
Data for index value after molded (Reference value)

## Aspherical Microlens Array

Microlens array, of which glass materials superior for excellences with environment resistance and temperature properties, is actualized. It also corresponds with telcordia standard by precise molding.

As materials with high refractive index, K-VC89 exceeds 1.8(nd) refractive index is also available.

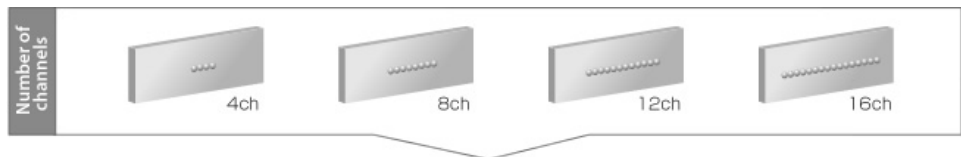
We actualize low cost and mass production(10,000 pcs per month, more than 10,000 pcs are possible) by making use of producing molding tools.



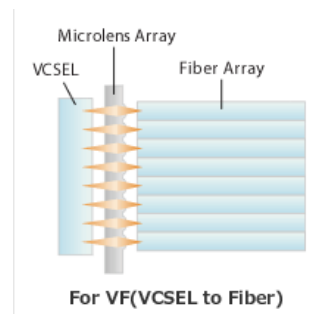
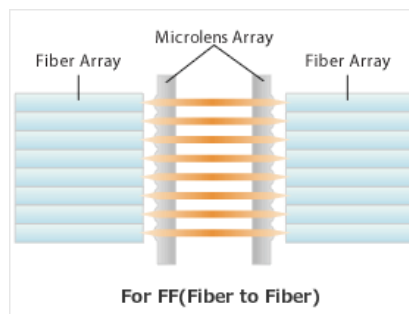
### Application

- collimator lens for communicating
- coupling lens for communicating
- LD fixed optics

### Processing Examples



### Application Examples



### Specifications

Overall Size	□less than 7mm
Lens Thickness	more than 0.3mm
Number of Lenses	consultation
Lens Pitch Error	less than 1μm
Minimum Lens Curvature Radius	more than 150μm

Maximum Lens Tilt Angle	40°
Lens Surface Shape Accuracy	less than P-V=1μm
Surface Roughness	Ra 0.030μm

※ Customized products within our specification is possible.

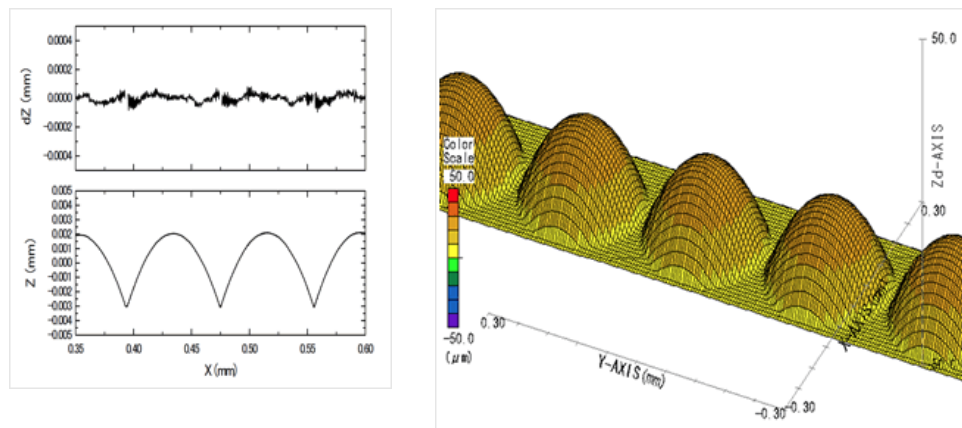
### Sample Specifications

Applications	for Collimator		for LD Coupling
Materials	K-PBK40		K-VC89
Design Wavelength	1550nm		850nm
Focal Length	0.6mm	0.35mm	0.22mm
Numerical Aperture NA	0.18	0.14	0.3x0.2
Lens Pitch	250μm	127μm	250μm
Number of Lenses	12	40	12
Lens Diameter	240μm	125μm	240μm
Lens Thickness	0.6mm	0.76mm	0.55mm
Lens Sag Value	25μm	10μm	38μm

※ サンプル(有償)につきましては、別途お問い合わせ下さい。

### Examples of shape accuracy

results of shape measurement shape tolerances P-V=0.25μm



Contact us  
for information and questions

