

Tech Brief

Fiber Coupling (ROADM, WSS, MUX, DEMUX)

MicroLens Arrays for High Coupling Efficiency

MicroLens arrays increase the efficiency for all kinds of Telecom – and Datacom applications. SÜSS MicroOptics is a world leading supplier of microlens arrays for fibre coupling applications. Our semiconductor-based manufacturing technology together with unique metrology processes allows us to deliver elements with outstanding performance.

MicroLens Array Features

- 1D & 2D Microlens Arrays
- Highest quality and precision
- Bulk material: Fused Silica, Silicon, Borofloat
- Wavelength range: DUV (193nm) to IR (5um)
- Lens profiles: Plano-convex, bi-convex, spheres, aspheres

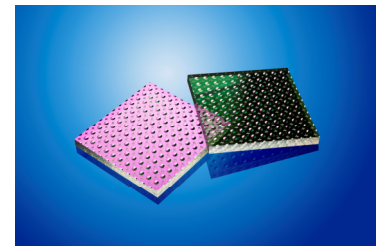
Additional Features:

- Stop arrays, pupils, pinholes, alignment marks, mounting posts
- Double sided lens arrays with precise front-to-back alignment
- AR-Coating, Metallization, Wafer-Level Packaging
- Wafer thinning



Large Selection of Standard Arrays Available Off-The-Shelf

- Pitches 127um, 250um, 500um, 750um, 1000um, 1250um on stock
- Array sizes available up to 120x120mm²



Tailor-Made Customized Arrays

Customized micro lens arrays along with all important measurement data (ROC, conic, uniformity, coating) can be supplied if requested.

Our References

SÜSS MicroOptics is the preferred supplier for many leading companies worldwide using our fiber coupling arrays for very challenging applications. Our wafer-based manufacturing technology (8'') results in precisely controlled lens profiles and high lens uniformity, enabling us to provide outstanding quality while maintaining competitive prices. Simply send us your inquiry, our experts will gladly discuss your requirements.

Our MicroOptics Set the Standards: Shouldn't your application do the same?

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