

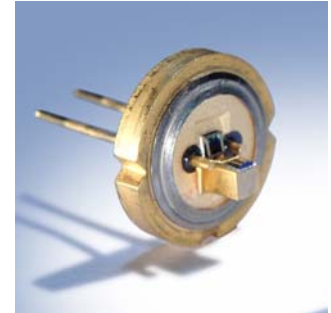
Tech Brief

Solutions for Diode Laser Collimation

Excellent collimation of the laser beam from a diode laser is often crucial for the overall performance of optical systems. SÜSS MicroOptics provides a large variety of standard **Slow Axis Collimators** and **Cylindrical Telescope Arrays** for collimation of laser diode stacks or bars.

Slow Axis Collimators

- Bulk material: Fused Silica, Silicon, Borofloat
- Spectral wavelength 193 nm – 5 μm
- Spherical or aspherical lens profiles
- Perfect control of conic constant and lens uniformity
- Anti-Reflection coatings available on request



Cylindrical Telescope Arrays

- Monolithic elements both sides micro structured
- Alignment accuracy < 3 μm using mask aligner technology

A Large Selection of Standard Arrays Available Off-The-Shelf

- Pitches 170 μm , 200 μm , 250 μm , 300 μm , 400 μm , 500 μm , 1000 μm , 1015 μm on stock
- Array sizes available from 1x1 mm² to 120x120mm²
- Customized lens designs and consulting on request

Our Technology is Your Benefit

With our precise manufacturing and metrology technology, SÜSS MicroOptics is able to meet tightest lens profile and uniformity specifications. Our high fill-factor lens arrays ensure maximum collimation efficiency.

Our References

SÜSS MicroOptics is preferred supplier for leading companies worldwide using our micro-optics in highly demanding laser diode applications. Our wafer-based manufacturing technology (8" wafer fab) enables us to provide outstanding quality for very competitive prices. Don't hesitate to send your requirements, we will find the appropriate solution for you.

Our MicroOptics Set the Standards: Shouldn't Your Laser Diodes do the Same?

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