



AT A GLANCE

Customized GRIN lenses in a variety of NA, length, and antireflection coatings, incl. design and simulation.



Features

- Diameter: 125 μm
other diameters on request
- Length: 400 μm – 2000 μm
- NA: 0.138 / 0.249 / 0.287
- AR-coating on single or both sides

Applications

- Beam collimating and forming
- Combination with SM fiber
- Micro optical bench
- Free space optics
- Hybrid integration platform
- On-chip integration of crystals, isolators

GRIN Lenses 125 μm

125 μm diameter GRIN lenses with the same diameter to the standard fiber opens up new applications in combination with:

- integrated optics
- single mode fibers

HHI offers customized GRIN lenses in a high variety of NA, length, and antireflection coating including design and simulation.

References

International R&D projects

SPRINTER

TERA6G

POLYNICES

(funded by EU commission)

National R&D projects

PolyChrome Berlin

QuNET+LORELAY

(funded by BMBF)



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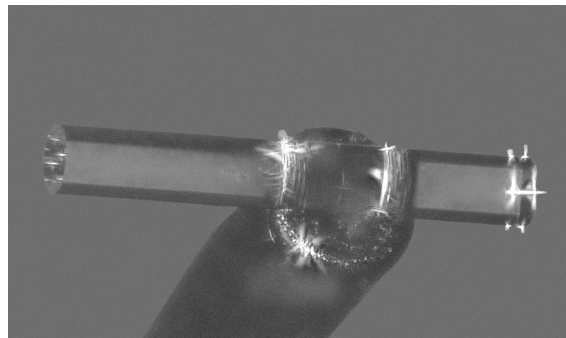
Fraunhofer Heinrich Hertz Institute

Einsteinufer 37, 10587 Berlin

Germany

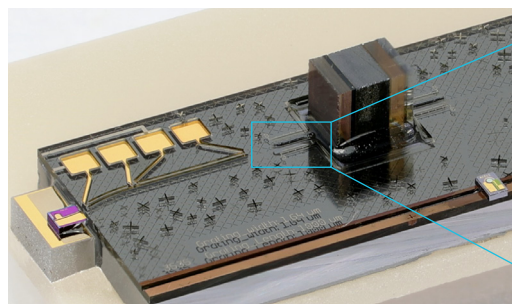
www.hhi.fraunhofer.de/phs

GRIN Lens



GRIN lens with 125 μm diameter

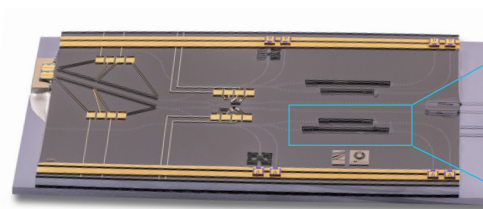
Applications



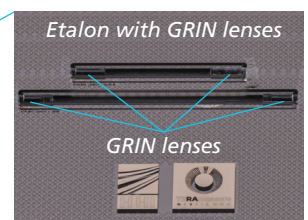
Tunable laser with integrated isolator



Collimating GRIN lens

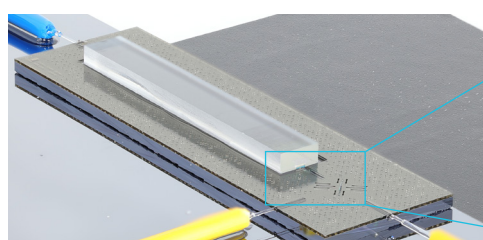


Tunable laser source with etalon for wavelength meters

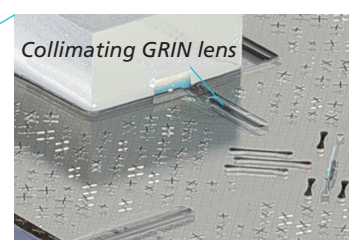


Etalon with GRIN lenses

GRIN lenses



Integrated photon source with embedded crystal



Collimating GRIN lens