GRIN LENSES

Fraunhofer HHI

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.

Fraunhofer HHI

References

International R&D projects

SPRINTER
TERA6G
POLYNICES
(funded by EU commission)

National R&D projects

PolyChrome Berlin
QuNET+LORELAY
(funded by BMBF)

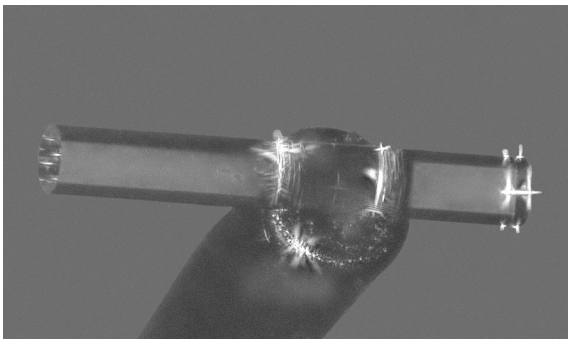
Crispin Zawadzki
Hybrid Integration and Sensing

Phone +49 30 31002 624
crispin.zawadzki@hhi.fraunhofer.de

Fraunhofer Heinrich Hertz Institute
Einsteinufer 37, 10587 Berlin
Germany

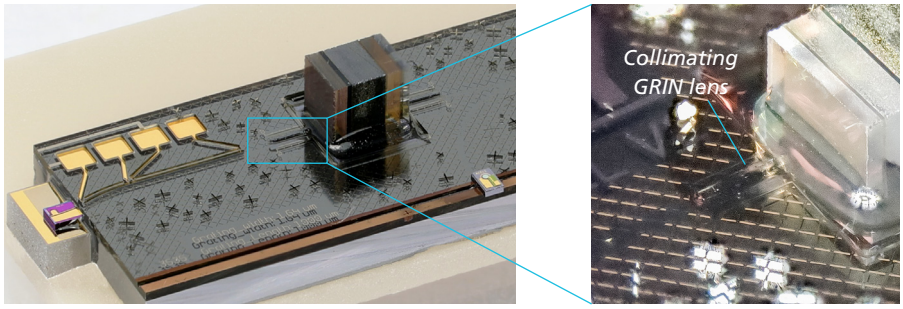
www.hhi.fraunhofer.de/pc

GRIN Lens

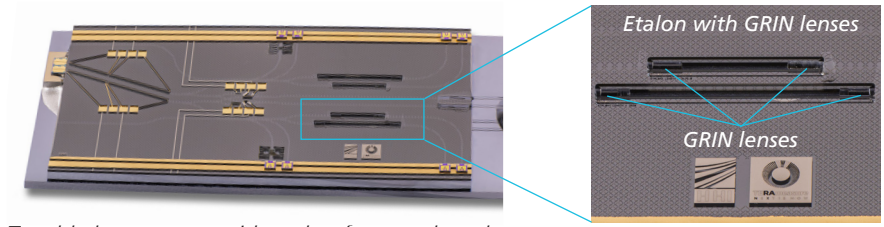


GRIN lens with 125 µm diameter

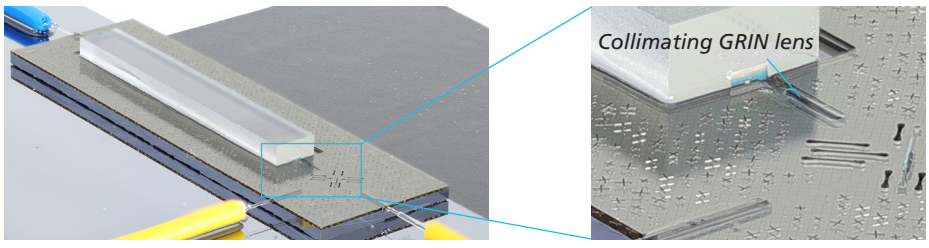
Applications



Tunable laser with integrated isolator



Tunable laser source with etalon for wavelength meters



Integrated photon source with embedded crystal