

MORE LIGHT

Optoelectronic components LEDs and photodiodes

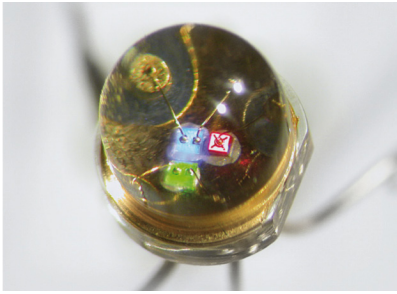
Our core competencies are the development and manufacturing of customer-specific semiconductor chips for LEDs and photodiode applications. Our motivated team uses modern and flexible chip manufacturing technologies in our cleanroom class 10,000/100 facility.

Our technical equipment covers all processing steps necessary for chip development and production from ohmic contacting to dicing and from 100 % chip testing to classifying and sorting. Liquid Phase Epitaxy is the basis for producing our spectral selective photodiodes.

Jenoptik specializes in manufacturing small and medium production series (up to several million pcs.) with a production capacity of about 50 Mio. standard chips per year.

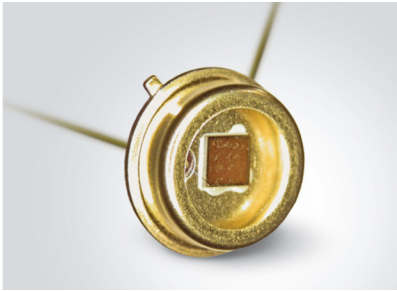
We also offer the development and series production of complex, customer-specific optical modules and sensors.

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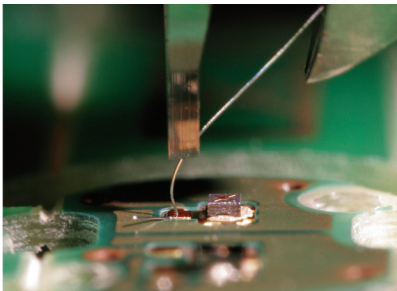
As a system supplier, we produce customized chips and LEDs

- Standard chips from 360 nm up to 1750 nm
- Customized layouts
- Monolithic display chips
- Point source chips for visible and infrared
- Sorting in accordance with special wavelength or output power requirements
- Various housings (3 mm, 5 mm, SMDs, TO-packages) to meet customer's



Photodiodes

- UV-photodiodes from UVA to UVC and wide-band
- spectral selective photodiodes based on A³B⁵-semiconductors with high sensitivity from visible to NIR range
- InGaAs-photodiodes in standard visible enhanced version
- Low dark currents
- High linearity of photocurrent
- High temperature stability and low degradation of sensitivity



Custom designed modules

- Development of integrated solutions from chip design through optical lens design
- Chip on board technology
- RGB-Modules
- Jumbo-LEDs from visible to infrared
- Thermal management with excellent heat sinking
- Packaging of imaging and CMOS sensors
- Clean room class 100 facility



Optosensors and measuring devices

- For UV measurement and monitoring applications
- For maintenance and calibration purposes of UV curing facilities
- Measuring heads and control units for water disinfection facilities
- Sensors for flame detection
- Sensors for medical devices such as for light therapy
- UV illumination devices for biomedical applications

Certification according to DIN EN ISO 9001, ISO 13485, ISO 14001, IATF 16949

It is our policy to constantly improve the design and specifications. Accordingly, the details represented herein cannot be regarded as final and binding.