

Red Dot &
Reflex Sights



Sport Optics &
Rangefinders

Riflescopes



EPIGAP OSA Photonics GmbH

is an industrial leader in the field of LED technology based on many years of technological know-how that we continuously develop.

Thanks to their performance, quality and reliability, our innovative optoelectronic products play a key role in many industries and can be found in industrial sensor and automation applications as well as in security technology and in diagnostics, biotechnology and medical technology.

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LED CHIPS

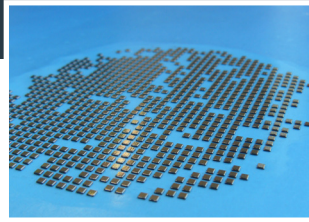
LEDS & PHOTODIODES

CUSTOMIZED
OPTOELECTRONICS

UV-VIS-NIR



LED-CHIPS



We produce and supply high-end LED-chips from ultraviolet to infrared with high efficiency and very good degradation stability.

- Complete chip production under clean room condition class 10.000/100
- III-V semiconductor wafer material
GaAs | GaP | GaAlAs | AlInGaP | InGaAs
- Capacity of about 50 million chips per year
- Wavelength 255 nm - 1900 nm

SMD-LEDs



Our SMDs meet the requirements of the ongoing miniaturization of electronic devices.

- In-house product line of various SMD types (0805, 1206 high power ceramics)
- Binning of wavelength or radiant power
- Bi-color, RGB, or Duplex versions available
- Low power – mid power – high power
- Wavelength 255 nm - 1900 nm

Chip on Board - CoB customized

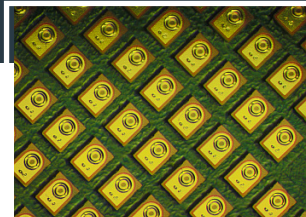


We offer CoB modules that can be tailored to the individual application.

Customization includes:

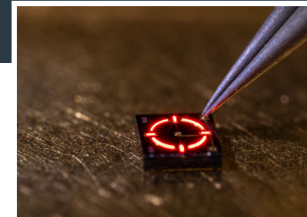
- Definition of optoelectronic targets
- Selection of a suitable substrate material
- Layout and design of the overall module
- Standard platform for up to 7 chips available
- Optics simulation | sample construction
- Qualification and testing | series production

LED Point Sources



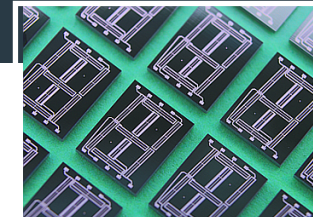
- High reliability: Lifetime up to 100.000 hours
- High efficiency: 50% less energy consumption for longer battery life time
- Custom packages available: e.g. ceramics with silicon encapsulation
- Diameter emission area: 10, 25, 50 μm
- Available wavelengths: 575 nm, 625 nm, 650 nm

Custom LED Reticles



- 40 years experience in challenging custom designs
- Application of black epoxy for less / no reflection in the line of sight
- Smallest dimensions for sharp image: 7 - 30 μm
- Numerous independent circuits (segments) possible
- Available wavelengths: 623 nm, 640 nm
- Assembly on FR4 or Flex board

Segmented LED Displays



- Customized monolithic chips with various layouts like digits and symbols
- Smallest dimensions (around 7 - 15 μm)
- Classic 7 segments or up to 33 segments on one chip possible
- Rows of chips in Chip-on-Board configurations or complete displays possible
- Available wavelengths: 623 nm, 640 nm