

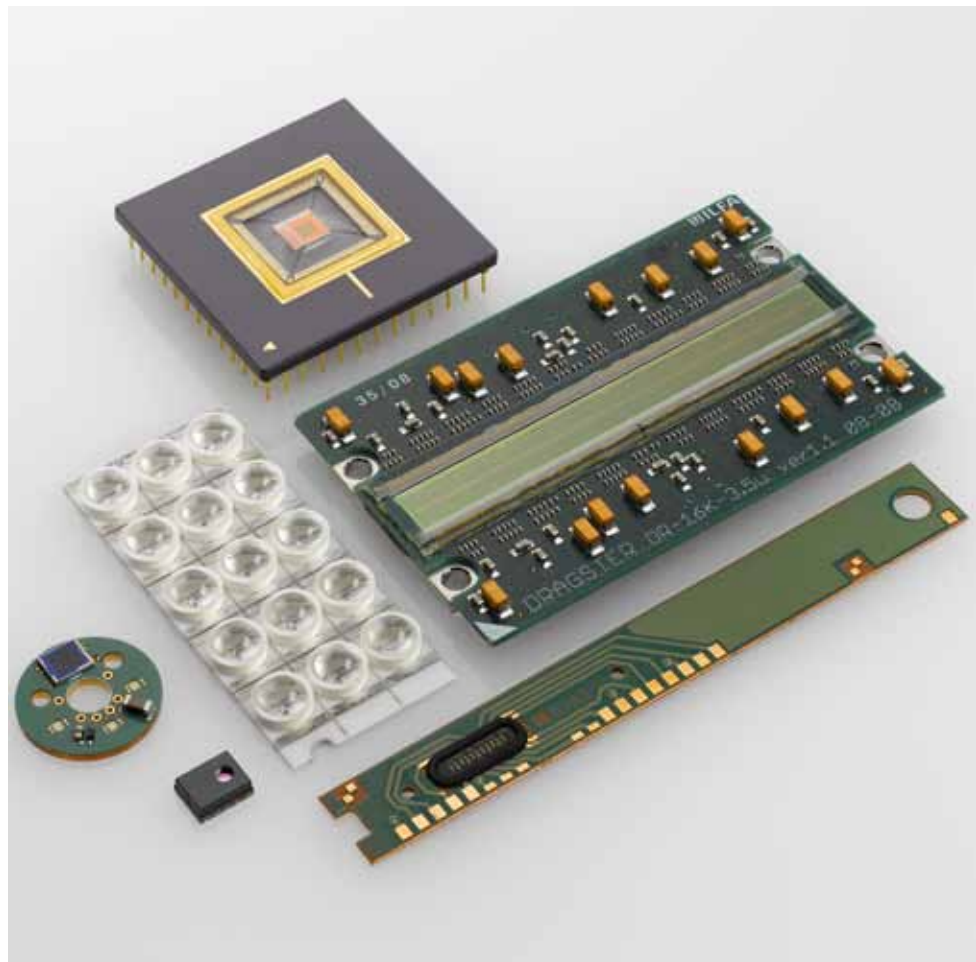


Assembly and Packaging Technology LEDs, Photodiodes and Sensors

From concept through mass production - we are your partner.

Together with our customers we develop customized optoelectronic modules and components. The technical capacities range from product design, to selection of adequate technologies, through series production and supply chain management.

Our manufacturing chain covers wafer dicing, chip and wire bonding, encapsulation, optic assembly, and electric end test. For these process steps we possess clean rooms up to class 100. That is how we can minimize process related interfaces and supply high quality products from one source.

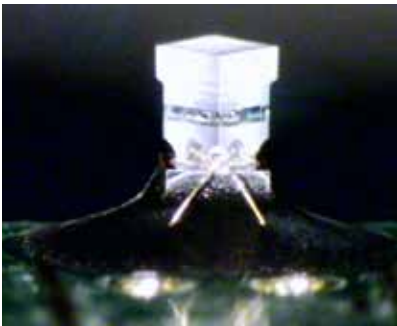


We realize your vision



Consultation and Service

- 3D construction and layout design for optoelectronic single or system solutions
- Development of technologies for the complete assembly and packaging process
- Manufacturing of prototypes and transfer into the mass production



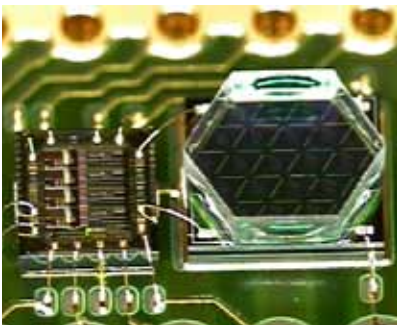
Assembly and Packaging Technologies

- Wafer dicing (Si, GaAs, glass, ceramics, FR4)
- Chip bonding (photodiodes, LEDs, image sensors, monoliths)
- Wire bonding (gold, aluminium)
- Encapsulation (e.g. globtop, cover, filter, lense, glass)
- Chip on board (Si, GaAs, glass, ceramics, FR4)
- Optimized selection of material



Customized LEDs, Photodiodes and Sensors

- Utilization of A³B⁵ – semiconductor materials (e.g. GaAs)
- LED chips in the spectral range of 350 nm to 1750 nm
- Photodiodes in the spectral range of 150 nm to 1750 nm
- Production of standard LED chips, high power chips, spot light chips, monolithic display chips and photodiode chips (UV, VIS, NIR)
- Excellent heat regulation for degradation and long term stability



Color Sensor – a Product Sample

- Color characteristics identification and measurement of surface color or active light sources
- Suitable for lighting systems which automatically adapt to brightness changes
- Accurate determination of chromaticity coordination
- Exact compliance to filter characteristics
- Long life durability and temperature stability
- Available as standard and special product

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



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