

Qualification for Automotive Industry

Quality of Pulsed Laser Diodes Meets Highest Demands

LASER COMPONENTS is proud to announce that the first of its products has achieved qualification for use in the automotive industry. Pulsed Laser Diodes (PLD) with a wavelength of 905 nm are key components for the LiDAR technology (Light Detection and Ranging) used in autonomous driving.

In the interests of safety and technological excellence, the automotive industry demands the highest quality standards from their suppliers – including those delivering electronic components. Manufacturers are required to deliver a detailed Production Parts Approval Process Report documenting and qualifying their entire production line. To qualify, companies must demonstrate compliance to the reliability and environmental standards of the Automotive Electronics Council (AEC). Car companies also push the boundaries when it comes to functionality in extreme surrounding conditions. While other industries take the temperatures inside a manufacturing plant as a reference, car electronics must also prove their reliability in arctic or tropical climates and are therefore tested at a range of temperatures from -40°C to 105°C (-40°F to 221°F). Similar standards are applied for humidity and mechanical shocks.

“So far, our PLDs have been very successful in laser scanning applications. Thanks to research areas like automotive driving, there is an increasing number of requests from the automotive industry”, says Winfried Reeb, Head of Business Unit Active Components at LASER COMPONENTS. “This first successful qualification proves that we are prepared for this promising yet demanding market.”

More Information

www.lasercomponents.com/de-en/product/pulsed-laser-diodes-at-905-nm/

Trade Shows

Photonex Coventry, October 11 - 12, 2017, Ricoh Arena, Coventry, Great Britain, **Booth D15**
PIE Photonics West, January 30 - February 01, 2018, San Francisco, USA, **Booth 1931**
Breko Glasfasermesse, March 13 - 14, 2018, Messe Frankfurt, Germany
analytica, April 10 - 13, 2018, Messe München, Germany
The Vision Show, April 10 - 12, 2018, Boston, USA
SPIE Defense & Commercial Sensing, April 17 - 19, 2018, Orlando, USA, **Booth 1029**
SPIE PHOTONICS Europe, 24. - 25. April, 2018, Strasbourg, Frankreich
LaSys, June 05 - 07, 2018, Messe Stuttgart, Germany
ANGACOM, June 12 - 14, 2018, Messe Köln, Germany
automatica, June 19 - 22, 2018, Messe München, Germany
Sensor+Test, June 26 - 28, 2018, Messe Nürnberg, Germany
Sensors Expo & Conference, June 27 - 28, 2018, San Jose, USA, **Booth 225**

The Company

LASER COMPONENTS specializes in the development, manufacture, and sale of components and services in the laser and optoelectronics industry. At LASER COMPONENTS, we have been serving customers since 1982 with sales branches in five different countries. We have been producing in house since 1986 with production facilities in Germany, Canada, and the United States. In-house production makes up approximately half of our sales revenue. A family-run business, we have more than 200 employees worldwide.