

Laser Components have announced the first of their 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 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 PPAP (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.

Winfried Reeb, in charge of the Active Components business group at Laser Components, says "Thanks to research areas like automotive driving, there is an increasing number of requests from the automotive industry; this first successful qualification proves that we are prepared for this promising yet demanding market".