

Press Release



Detect Small Amounts of Light Using a Single Fiber Avalanche Photodiodes with Fiber Pigtails

LASER COMPONENTS now manufactures avalanche photodiodes with fiber pigtails. With a semiautomatic assembly unit, the fibers can be adjusted exactly to within a few μm and thus achieve coupling efficiencies of almost 100%. The pigtailed technology is very flexible – almost any combination of APD and fiber can be implemented: all optical fibers with a core diameter of $< 600 \mu\text{m}$ can be combined with our APDs in a TO-46 housing.

The advantages of fiber coupling are obvious: in medical technology or analytical measurement technology, it is often not ideal to have the detector close to the area of measurement; in photon-counting applications, it is possible to shield disruptive signals with the help of an opaque fiber jacket; in industry, data is transmitted across very long distances via optical fibers.

On a standard basis LASER COMPONENTS offers the SAP-series Geiger-mode APDs and the particularly low-noise IAG-series InGaAs APDs. Hermetically sealed and with high mechanical durability, these APDs exceed the requirements of the Telcordia GR-468 standard. The development of APDs according to customer specifications is inexpensive and possible at any time.

More Information

<http://www.lasercomponents.com/de-en/news/avalanche-photodiodes-with-fiber-pigtails/>

Trade Shows

Photon 2014, Sept. 01-04, 2014, Imperial College London, UK, **Booth 19**
Strategies in Biophotonics, Sept. 09-11, 2014, Boston Park Plaza Hotel, Boston, USA, **Booth 500**
enova, Sept. 16-18, 2014, Paris expo Porte des Versailles, **Booth C11**
Photonex 2014, Oct. 15-16, 2014, Ricoh Arena, Coventry, UK, **Booth D20**
Vision 2014, Nov. 04-06, 2014, Messe Stuttgart, Germany, **Booth 1F14**
electronica 2014, Nov. 11-14 2014, Messe München, Germany, **Booth B1-306**

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 four different countries. We have been producing in house since 1986 with production facilities in Germany, Canada, and the USA. In-house production makes up approximately half of our sales revenue. A family-run business, we have more than 170 employees worldwide.