

Press Release

Adjustable Beam Splitters from LASER COMPONENTS

Innovative Variable Beam Splitters

High power beam splitters are used to split a laser beam into two partial beams. Conventional production of such a dielectric layer has a tolerance of $\pm 3\%$ or higher. With a special IBS coating, offered by LASER COMPONENTS, the tolerance can be reduced to just $\pm 1\%$.

In very challenging applications a laser user will want to avoid tolerances of even $\pm 1\%$. In addition, there are applications in which one ends up with different losses in each beam path after adjustment.

For these applications, LASER COMPONENTS has designed a variable beam splitter that has a position-dependent reflection profile. By moving the beam splitter one can obtain a reflection value between $\pm 5\%$ depending on the position. The values can be continuously adjusted. The coating is produced using an IAD process; therefore, it does not exhibit a noteworthy drift. Due to the active adjustment, the laser beam cannot only be very precisely split, but it can be split without any absorption losses.

More Information

<http://www.lasercomponents.com/de-en/product/partially-reflective-coating/>

Trade Shows

Vision 2011, November 08-10, 2011, New Trade Fair Center Stuttgart, D, **Booth 4D13**
BiOS 2012, January 21-22, 2012, The Moscone Center, San Francisco, **South Hall – Booth 8517**
Photonics West 2012, Jan. 24-26, 2012, Moscone Center, San Francisco **South Hall – Booth 517**
Analytica 2012, April, 17-20, 2012, Munich International Trade Fairs, **Booth A2.400A**

The Company

LASER COMPONENTS is specialized in the development, manufacture, and sale of components and services for the laser and opto-electronics industries. With sales offices in four different countries, the company has served its customers since 1982. In-house production at six locations in Germany, Canada, and the USA began in 1986 and is meanwhile responsible for about half of its turnover. Currently, the family-run business employs more than 130 people worldwide.