

Press Release

Optical Fibers for IR Applications

New Optical Fibers for CO₂ and Er:YAG Lasers

Optical fibers are being requested for laser systems more and more, in particular pigtailed for pump modules and medical laser systems. For these applications LASER COMPONENTS now offers so-called Hollow Silica Waveguides (HSW™) from our new partner Polymicro Technologies.

These fibers were specially designed for IR applications, that is primarily for use with CO₂ (10.6 μm) and Er:YAG (2.94 μm) lasers. They are meant to replace the very expensive and complex articulated arms, resulting in a significant cost reduction.

These fibers allow applications under harsh environmental conditions and the fast changing of laser geometry. The special design of the fiber geometry and the properties of the buffer allow up to 100 W of power to be transmitted without additional cooling.

HSW™ fibers are available in the following standard sizes (ID/OD/Buffer): 300/400/750, 500/650/850, 750/950/1200, and 1000/1300/1600. HSW™ fibers are generally assembled with SMA (905 and 906), ST, and FC connectors. Customer-specific core and buffer sizes are available as well as connectors or optically-broken, free fiber ends. Just contact LASER COMPONENTS.

More Information

<http://www.lasercomponents.com/de-en/product/hollow-silica-waveguide/>

Trade Shows

Analytica 2012, April, 17-20, 2012, Munich International Trade Fairs, **Booth A2.400A**
Optatec 2012, May, 22-25, 2012, Frankfurt Exhibition Centre, **Booth E01**
Sensor + Test 2012, May, 22-24, 2012, Nürnberg Exhibition Centre, **Booth 12-426**

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.