

## Press Release

	Optical Fibers with Sculped End Faces
	Fiber Tips with Diffusor for Medical and Industrial Applications
	Fiber tips are microcomponents that are formed directly at the end of an optical fiber to change its emission behavior.
	The interest in such optical fiber tips is growing significantly: This technology is beco- ming standard in many medical and industrial applications because it increases the efficiency of entire systems. This increase results from the reduction in optical interfaces; in addition, the compact design compared to separate optical systems is also an advantage. Cumbersome adjustment is no longer necessary: fiber tips are adjustment- free. Even external mechanical influences, such as vibrations or temperature fluctua- tions, do not affect the optical performance.
	LASER COMPONENTS presents diffusor tips that disperse the light evenly across the length of the fiber tip. The diffusors are manufactured by carving spiral-shaped grooves into the fiber cladding with the help of $CO_2$ lasers.
	The diffusor tips ensure an even dispersion and are, therefore, well suited for applica- tions like photodynamic therapy or tissue removal in urology.
	These fiber tips are manufactured by LASER COMPONENTS' partner Polymicro Tech- nologies in Phoenix, Arizona. Step-index, multi-mode fibers with a numerical aperture of 0.22 or 0.37 and a fiber core diameter > 200 µm are used for this purpose. Diffe- rent buffer materials, connector types, and claddings are also available.
More Information	http://www.lasercomponents.com/de <sup>.</sup> en/product/optical-fiber-tips/
Trade Shows	Optatec 2014, May, 20 22., 2014, Messe Frankfurt, Germany, Booth E01
	ANGA COM, May, 20 22., 2014, Koelnmesse, Germany, Booth10.1/T35 Sensor + Test 2014, Jun., 03 05.2014, Messe Nürnberg, Germany, Booth 12.117 maintain 2014, Jun., 0306.2014, Messe München, Germany, Booth B6.131
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 160 employees worldwide.

## <sup>1</sup> Laser Components GmbH

Werner-von-Siemens-Str. 15 82140 Olching Germany Tel: +49 8142 2864 - 0 Fax: +49 8142 2864 - 11 www.lasercomponents.com Press Contact

Claudia Michalke Tel: +49 8142 2864 – 85 c.michalke@lasercomponents.com