

Diversification

Diffractive Optical Elements Made of Plastic

If diffractive optical elements are used at low and medium laser power, then plastic elements may be sufficient instead of using fused silica elements. LASER COMPONENTS offers Holo/ORs plastic DOEs in different materials: polycarbonate, PMMA, Zeonex, and Zoner. They are produced in large quantities using an injection molding process.

Plastic DOEs are used in particular in systems of mass production. For the most part, customers have optics made that feature their required specifications. Holo/OR offers inexpensive tooling and low production costs. Multi-spot DOEs and homogenizers are currently available as standard elements for the wavelengths 850 nm and 532 nm.

To evaluate new elements, Holo/OR uses software it developed on its own. For this reason, customers will be able to obtain a data file of the DOEs in the quotation phase. This file can then be integrated into their own software (Zemax or Lighttrans) for further simulations.

More Information

<http://www.lasercomponents.com/de-en/product/diffractive-optical-elements-does-made-of-plastic/>

Trade Shows

DSS 2015, Apr 21-23, 2015, Baltimore Convention Center, Baltimore, MD, **Booth 1125**
Sensor+Test 2015, May, 19 - 21, 2015, Messe Nürnberg, Germany, **Booth 12.117**
Anga Com 2015, Jun, 09 - 11, 2015, Messe Köln, Germany, **Booth 10.2/J35**
Sensors Expo & Conference 2015, Jun 9-11, 2015, Long Beach Convention Center, CA, **Booth 924**
LASER. World of Photonics 2015, Jun, 22 - 25, 2015, Messe München, Germany, **Booth B3.303**

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