

DOEs for demanding and sensitive applications

HEDS – High Efficiency Double Spot Beam Splitter

LASER COMPONENTS is proud to introduce yet another groundbreaking Holo/OR product: thanks to its innovative design, the HEDS (High Efficiency Double Spot) offers unprecedented 97% efficiency – resulting in more than 48% with each beam.

Double spot beam splitters are diffractive optical elements (DOE) used for separating an incoming laser beam into two identical beams. They are most commonly used in lithography as well as high power applications such as cutting and perforation. Until now, a small portion of light was lost in higher diffraction orders, but there are applications that do not tolerate even a 1% loss. Therefore, Holo/OR has developed this DOE with an efficiency well above the standard value of 81%.

HEDS is very sensitive to centering. Slight changes have no effect on spot shape or overall efficiency, but will result in a different efficiency ratio between the two spots. Then again, with some skill, this may be used for achieving division ratios other than 50/50 – for example 47/53.

HEDS is available in wavelengths between 193 nm and 10.6 µm.

More Information

<http://www.lasercomponents.com/lc/product/diffractive-elements-for-beam-splitting/>

Trade Shows

mirsens, April 15 - 17, 2017, Wrocław, Polen

Optics & Photonics Days 2017, May 29-31, 2017, Oulu, Finland

ANGACOM, May 30 - June 01, 2017, Cologne, Germany, **Booth 7-B09**

Sensor+Test, May 30 - June 01, 2017, Nürnberg, Germany, **Booth 1-256**

Photonex Scotland Roadshow, June 14, 2017, University of Strathclyde, UK, **Booth S2**

LASER World of Photonics, June 26 - 29 2017, Messe Munich, **Booth B3.303**

Sensors Expo & Conference, June 28 - 29, 2017, San Jose, CA, USA, **Booth 225**

enova Paris, September 19 - 21, 2017, Paris, Frankreich

Photonex Coventry, October 11 - 12, 2017, Ricoh Arena, Coventry, Großbritannien, **Booth D15**

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 200 employees worldwide.