

### The "Slim" Line

#### 1064 nm PLANEX Laser

Redfern Integrated Optics, Inc. (RIO) announced its first PLANEX laser emitting the classic YAG wavelength of 1064 nm, featuring narrow line width (15 kHz), low noise and high coherence length. Its compact housing and standardised electrical connections make it an easy drop-in replacement for existing designs. RIO lasers are available at LASER COMPONENTS in Germany and in the UK.

RIO's proprietary PLANEX technology is a combination of a gain chip and a planar light wave circuit (PLC) with an integrated Bragg grating. The combination of these components forms a cavity with significant benefits: up to 20 mW output power, very low RIN, low phase noise as well as very low wavelength sensitivity to bias current and temperature.

External Cavity Lasers are the best choice for all applications that require narrow-band beams with narrow line widths – such as communications, LIDAR, metrology and research.

#### More Information

<https://www.lasercomponents.com/de-en/product/external-cavity-laser-diodes/>

#### Trade Shows

**SPIE Photonics West**, January 30 - February 01, 2018, San Francisco, CA, USA, **Booth 1931**  
**MD&M West**, February 06 - 08, 2018, Anaheim, CA, USA, **Booth 3593**  
**Breko Glasfasermesse**, March 13 - 14, 2018, Messe Frankfurt, Germany  
**EuroExpo**, March 21 - 22, 2018, Trondheim, Norway, **Hall E**  
**Photonex London**, April 11, 2018, Imperial College London, UK, **Booth S14**  
**analytica**, April 10 - 13, 2018, Messe München, Germany, **Booth A2.500**  
**The Vision Show**, April 10 - 12, 2018, Boston, MA, USA, **Booth 410**  
**SPIE Defense & Commercial Sensing**, April 17 - 19, 2018, Orlando, FL, USA, **Booth 1029**  
**SPIE PHOTONICS Europe**, April, 24 - 25, 2018, Strasbourg, France, **Booth G325**  
**Scandinavian Electronics Event**, April, 24 - 26, 2018, Kistamässan, Sweden, **Booth C08:49**  
**LaSys**, June 05 - 07, 2018, Messe Stuttgart, Germany, **Booth 4C33**  
**ANGACOM**, June 12 - 14, 2018, Messe Köln, Germany  
**automatica**, June 19 - 22, 2018, Messe München, Germany, **Booth B5.501**  
**Sensor+Test**, June 26 - 28, 2018, Messe Nürnberg, Germany, **Booth 1.256**  
**Sensors Expo & Conference**, June 27 - 28, 2018, San Jose, CA, USA, **Booth 225**  
**SPIE Optics+Photonics**, August 19 - 23, 2018, San Diego, CA, USA, **Booth 527**  
**Photonex Europe**, October, 10 - 11, 2018, Ricoh Arena, Coventry, UK, **Booth D15**  
**Vision**, November 06 - 08, 2018, Messe Stuttgart, Germany, **Booth 1G31**  
**electronica**, November 13 - 16, 2018, Messe München, Germany

#### 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 220 employees worldwide.