

### RIO ORION Laser Module

## Narrow Linewidth Single Frequency Laser Source

The RIO ORION laser module builds upon the proven performance of the PLANEX product series. Besides the standard 1550 nm and 1064 nm wavelengths, LASER COMPONENTS also offers this product range in ITU-T Grid and custom wavelengths. In addition to high reliability and robustness, the ORION module provides superior value with up to 20 mW output power, very low RIN, and low phase noise at a narrow linewidth and high wavelength stability. Its packaging is designed to achieve a highly integrated, self-contained module with a small form factor.

At the heart of the ORION module is a high-performance single frequency External Cavity Lasers (ECL) based on RIO's proprietary PLANEX technology. It consists of a gain chip and a planar light wave circuit (PLC) with a Bragg grating. These components form an extended laser resonator, which offers considerable advantages in addition to the extremely small line width - for example, low wavelength sensitivity to bias current and temperature. These outstanding features make ORION the perfect semiconductor solution for applications that require high accuracy and resolution; e.g. Optical Parametric Oscillators (OPO), high resolution spectroscopy, LiDAR and other precision metrology applications.

### More Information

[www.lasercomponents.com/de-en/product/external-cavity-laser-diodes/](http://www.lasercomponents.com/de-en/product/external-cavity-laser-diodes/)

### Trade Shows

**Sensors Expo & Conference**, June 25 – 27, 2019, San Jose, CA, USA, **Booth 419**  
**LASER World of PHOTONICS**, June 24 – 27, 2019, Munich, Germany, **Booth B3.303**  
**SPIE Optics+Photonics**, August 13 – 15, 2019, San Diego, CA, USA, **Booth 425**  
**ECOC**, September 22 – 26, 2019, Dublin, Ireland, **Booth 337**  
**Photonex Europe**, October 09 – 10, 2019, Ricoh Arena, Coventry, UK, **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 230 employees worldwide.