QD Laser, Inc. introduces a new product of 400 mW output power (under 1 nsec pulsed operation) in the 1064 nm single-mode DFB laser diode series

Kanagawa Japan, February 4th, 2014

QD Laser, Inc. today announces a new product of 1064 nm 400 mW pulsed DFB laser diode modules in the QLD1061 series as QLD106D-64D0. This laser module is designed for high peak power pulsed operation, especially around 1 nsec pulsed region. QD Laser, Inc. exhibits the QLD1061 series, including QLD106D-64D0, at SPIE Photonics West (Booth#5501), held from February 4, 2014, in San Francisco, USA.

The QLD1061 series offer both CW and pulsed operation, including very short pulse of 50 psec, with stable single-mode oscillation and have already been shipped to world-wide companies. Owing to their flexible operation and stable spectral characteristics, the laser diode modules are mainly applied to the high-performance ytterbium fiber laser system for material processing and sensing as seeding light sources. The new product of QLD106D-64D0, featuring higher optical output power of >400 mW under short pulsed duration of around 1 nsec, will help customers extend the driving condition in lower duty cycle without degrading averaged power. Furthermore, its stable spectral characteristics are also suitable for wavelength conversion into 532 nm and UV region under pulsed operation.

The specially designed semiconductor DFB laser chip is assembled into a standard 14-pin package with an integrated optical isolator which has typically >40 dB isolation. Electrical wiring inside the package has been improved to achieve the fast rise time of <0.5 nsec.

QD Laser, Inc. has already started to provide an engineering sample of QLD106D-64D0 since the second half of 2013, and has a plan to start mass production in April, 2014.

Press and Customer Contacts
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About QD Laser, Inc.
Founded in April 2006 with capital funded by Fujitsu Limited & Mitsui Ventures, with headquarters located in Kanagawa, Japan. QD Laser, Inc. is a technology leader in the field of semiconductor optical devices including quantum dot lasers, based on more than ten years of research collaboration between Fujitsu Laboratories Ltd. and the University of Tokyo in Japan. For more information: www.qdlaser.com

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