QD Laser, Inc. introduces a new product of picosecond pulsed driver board integrated with 1μm-wavelength range DFB laser diode modules

Kanagawa Japan, April 16th, 2014 ---

QD Laser, Inc. today announces a new product of picosecond (psec) pulsed driver board integrated with 1μm-wavelength range 14-pin butterfly DFB laser modules of QLD1x6x series as QC2D1x6x sereis. This driver board is designed to generate 50 psec optical pulse with stable single longitudinal mode. QD Laser, Inc. is to exhibit this new product at Photonix 2014 (Booth#15-10), to be held in Tokyo, Japan, from April 16 to 18, 2014.

Recently, many fiber lasers for micromachining have come to adopt MOPA (Master Oscillator Power Amplifier) system using directly-modulated semiconductor seed lasers with highly controllable pulse in its shape, width, and repetition rate. In particular, high-quality glazing and marking etc., requires psec pulses to reduce heat effects on processed materials. Our products of DFB laser modules, QLD1x6x series with very short optical pulse of 50 psec and stable single-mode oscillation, are widely noticed. Pulsed driver boards are being required by many of our customers to achieve stable, flexible, and easy operation of the laser diodes.

The new product of QC2D1x6x series, featuring stable 50 psec optical pulse generation, will help customers design and develop psec fiber lasers, and is suitable for micromachining, sensing and time resolved measurement. The main features of this product are as follows:

- Integration of QLD1x6x series of 1020 to 1180 nm DFB laser modules with stable single-mode oscillation
- 50psec optical pulse generation, tunable pulse width up to 9 nsec, and CW operation
- Peak optical output power of 100 mW, typical under 50 psec operation
- Tunable repetition rate of single shot to 250 MHz
- Fine wavelength tuning by temperature control of LD chips
- Flexible parameter control via USB interface
- Single +5 V power supply

QD Laser, Inc. has already started to provide an engineering sample of QC2D1x6x series since the second half of 2013, and has a plan to start mass production in the first half of 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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