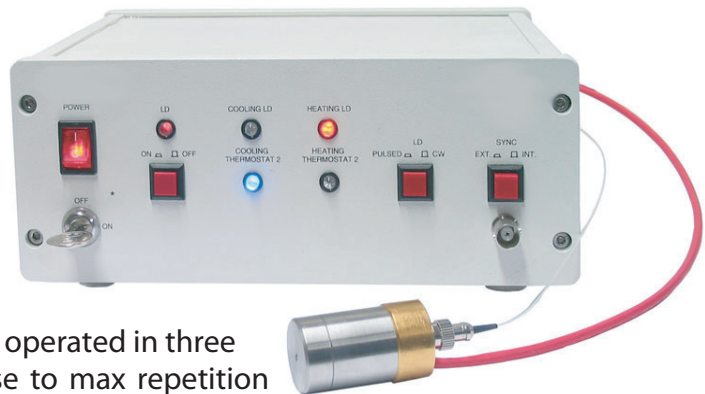


Grommet

Diode Pumped Nd:LSB Microchip Solid-state Lasers

Del Mar Photonics Inc. introduces new high peak powers (up to 16 kW) with sub-nanosecond pulse lengths or high repetition rates (up to 100 kHz) solid-state lasers. This family of highly reliable, lasers consists of a power supply unit and laser head. The power supply unit includes a laser diode (LD) driver, fiber pigtailed LD, and internal pulse generator. The laser repetition rate can be operated in three different modes, and changed from single pulse to max repetition rate in either pulsed LD pumping mode. Three ways to operate the laser include: 1. Repetition rate is fixed by internal pulse generator (Pulsed LD pumping); 2. Repetition rate is fixed by external TTL levels pulses (Pulsed LD pumping); 3. Repetition rate is fixed by continuous LD pump current.



APPLICATIONS

- Pump source of harmonic generators
- Optical parametric oscillators and amplifiers*
- Two-photon microscopy
- Fluorescence microscopy
- Test and measurements in different Photonics Systems
- Low-coherence "white light" interferometry
- Optical coherence tomography
- Spectroscopy

* based on the periodically poled KTP and LiNbO₃ crystals

G-01 produces pulses of first harmonic
G-01SH produces pulses of second harmonic
G-01CW continuous wave laser

Grommet-01 (or Grommet-01SH)

+

Photonic crystal fiber



Ultra-bright supercontinuum source

SPECIFICATIONS

| Model | G-01-1 | G-01-2 | G-01-3 | G-01-4 | G-01SH-1 | G-01CW |
|--------------------------------|--------------------------|--------|--------|--------|----------|-----------|
| Wavelength, nm | 1062 | 1062 | 1062 | 1062 | 531 | 1062 |
| Average output power (max), mW | 100 | 120 | 125 | 65 | >50 | 0-200 |
| Pulse energy, μJ | 2 | 3 | 5 | 6.5 | 2 | - |
| Pulse duration, ns | 0.6 | 0.8 | 0.6 | 0.7 | <0.5 | - |
| Repetition rate (max), KHz | 50 | 40 | 25 | 10 | 25 | - |
| Beam profile | M ² < 1.2 | | | | | |
| Pulse spectral structure | single longitudinal mode | | | | | multimode |
| Polarization ratio | > 100:1 | | | | | |
| Operating temperature, °C | 10-30 | | | | | |
| Laser head dimensions, mm | | | | | | |
| Diameter | 25 | 25 | 25 | 25 | 25 | 25 |
| Length | 44.5 | 44.5 | 44.5 | 44.5 | 76.5 | 44.5 |

DEL  **MAR PHOTONICS**

4119 Twilight Ridge, San Diego, CA 92130, USA Tel:: (858) 876-3133 Fax:: (858) 630-2376
 E-mail:: sales@dmphotonics.com URL:: www.dmphotonics.com

