

Orange Yellow Lasers **593 / 589 / 584 nm**

High reliability High stability Single longitudinal mode Ultra-compact

SPECIFICATIONS

| Wavelength | Standard version, Model No. | | | | Low noise version, Model No. | |
|---------------------------------------|---|---|-----------|-------|------------------------------|-------|
| 593.5 nm Vertical polarization | CL593-050 | 50 mW | CL593-025 | 25 mW | CL593-050-L | 50 mW |
| | CL593-035 | 35 mW | | | CL593-025-L | 25 mW |
| 589 nm Vertical polarization | CL589-015 | 15 mW | CL589-005 | 5 mW | CL589-005-L | 5 mW |
| | CL589-010 | 5 mW | | | | |
| 584 nm Vertical polarization | CL584-015 | 15 mW | CL584-005 | 5 mW | | |
| | CL584-010 | 5 mW | | | | |
| Output noise (rms) | 2% from 1Hz to 10 kHz, ~20% at 500 kHz | | | | 5% from 1 Hz to 100 MHz | |
| Output stability (rms) | < 2% over 2 hours | | | | | |
| Transverse mode | Single mode, TEM ₀₀ , M ² = 1.0 - 1.3 | | | | | |
| Longitudinal mode | Multiple longitudinal modes | | | | | |
| Coherence length | 0.5 - 3 mm | | | | | |
| Spectrum linewidth | 0.15 nm, nominal | | | | | |
| Beam diameter (1/e ²) | ~ 0.4 mm | Option: 2X - 5X laser beam expanders are available to change beam size and divergence | | | | |
| Beam divergence | ~ 2.2 mrad | e.g. 0.7 mm beam with 1.2 mrad divergence; or 1.5 mm beam with 0.6 mrad divergence | | | | |
| Beam pointing stability | < 0.005 mrad/°C | | | | | |
| Polarization ratio | 50:1, >100:1 option available; Vertical linear polarization | | | | | |
| Operation temperature | 10 °C to 35 °C | | | | | |
| Warm-up time | < 1 minute | | | | | |
| Operation voltage | 90-250 VAC or 12VDC OEM version 11-16VDC; Typical power consumption: 15 W | | | | | |
| Dimensions and weight of laser head | 3x3x12 cm ³ (1.2x1.2x4.7 in ³) with a fixed 6 mm thick plate, 0.3kg (0.6 lb) 7x3.6x18.5 cm ³ (2.8x1.4x7.3 in ³), 0.6 kg (1.3 lb) for lasers ≥ 400 mW, type 2 size | | | | | |
| Dimensions and weight of power supply | AC: 5x14x15 cm ³ (2x5.5x6 in ³), 0.5 kg (1 lb); Option CL-2005 power display AC: 5 x 16 x 15 cm ³ DC: 8.5x3.5x12.7 cm ³ (3.3x1.4x5 in ³), 0.2 kg (0.5 lb) | | | | | |

* Polarization direction can be rotated to vertical or horizontal direction.

Fiber coupling option: Single mode and multi-mode fiber delivery.

Modulation option: TTL on/off, 1 kHz to 10 kHz; and Analog modulation option.

CL-2005 power supply option: Power adjustable and power digital display.



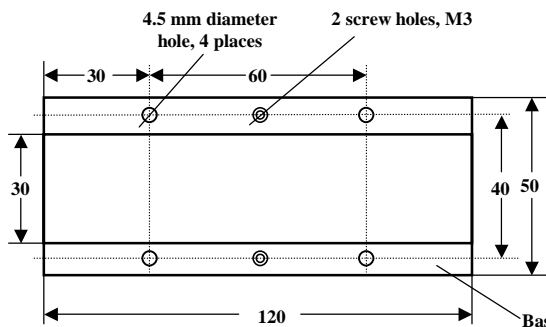
Made in the USA



Laser Head

All dimensions in mm

Top View



Front View

