

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; 45° off vertical, for ≥ 300 mW laser, 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

