

# Compact 593 nm, 561nm Orange Yellow Lasers

High reliability High stability Single longitudinal mode Ultra-compact

## SPECIFICATIONS

Wavelength	Single longitudinal mode version, Model No.		Low noise version, Model No.	
593.5 nm	CL593-025-S	25 mW	CL593-025-L	25 mW
	CL593-010-S	10 mW	CL593-010-L	10 mW
	CL561-050-S	50 mW	CL561-050-L	50 mW
561 nm	CL561-025-S	25 mW	CL561-025-L	25 mW
	CL561-010-S	10 mW	CL561-010-L	10 mW
	589 nm or 584 nm lasers Engineering sample soon			
Output noise (rms)	0.5% from 1Hz to 100MHz		0.25% from 1 Hz to 100 MHz	
Output stability (rms)	< 2% over 2 hours			
Transverse mode	Single mode, TEM <sub>00</sub> , M <sup>2</sup> = 1.05 - 1.2			
Longitudinal mode	Single longitudinal mode			
Coherence length	>50 meter			
Spectrum linewidth	<0.1 pm, nominal			
Beam diameter (1/e <sup>2</sup> )	0.7 mm	Option: 0.5X - 5X laser beam expanders are available to change beam size and divergence		
Beam divergence	1.2 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	>100:1 option available; Horizontal polarization			
Operation temperature	10 °C to 35 °C			
Warm-up time	< 2 minutes			
Operation voltage	90-250 VAC or 12VDC OEM version 11-16VDC; Typical power consumption: 15 W			
Dimensions and weight of laser head	3 x 3.6 x 13.5 cm <sup>3</sup> (1.2 x 1.4 x 5.3 in <sup>3</sup> ), 0.2 kg (0.5 lb)			
Dimensions and weight of power supply	AC: 5x14x15 cm <sup>3</sup> (2x5.5x6 in <sup>3</sup> ), 0.5 kg (1 lb); Option CL-2005 power display AC: 5 x 16 x 15 cm <sup>3</sup> DC: 8.5x3.5x12.7 cm <sup>3</sup> (3.3x1.4x5 in <sup>3</sup> ), 0.2 kg (0.5 lb)			

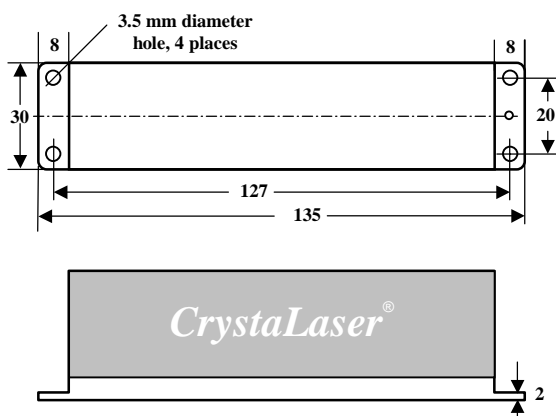
\* Polarization direction can be rotated to vertical or horizontal direction.

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

**Modulation option:** TTL on/off, 10 kHz, up to 20 MHz; and Analog modulation option.

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

Made in the USA



All dimensions in mm

