

NewOpto Technology Corporation

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半导体激光器



新势力光电供应**半导体激光器**，具有高速调制、体积小、结构紧凑、驱动电路集成化的特点。该系列**半导体激光器**具有最佳的光束质量和模拟/数字调制性能，适合于工业仪器和设备的集成化开发。**Cobolt MLD** 系列半导体激光器，可以单独用于实验室研究，也可以用于各类分析仪器和计量设备的 OEM 系统集成。

Wavelength [nm]	405	445	473	488	515	640	660
Wavelength precision	± 5 nm						
Power [mW]	100	50	80	60	25	100	100
Beam divergence (full angle) [mrad]	< 1.1	< 1.2	< 1.2	< 1.3	< 1.3	< 1.7	< 1.7
Spatial mode	TEM00, M2 < 1.2						
Beam diameter at aperture	700 um ± 100 um						
Beam symmetry	> 0.90:1						
Noise, 250 Hz - 2 MHz (rms)	< 0.2%						
Power stability over 8 hours	< 0.5%						
Spectral linewidth (FWHM)	< 1.2 nm						
Polarization ratio	> 1:100						
Modulation							
Digital modulation	Input signal: 0 to 3.3 - 5.0 V TTL						
bandwidth	DC - 150 MHz						
extinction ratio	> 10,000:1						
Rise / Fall time	< 2.5 ns						
Analogue modulation	Input signal: 0-1 V (1 kOhm or 50 Ohm)						
bandwidth	DC - 2 MHz						
extinction ratio	> 10,000:1						
Rise / Fall time	< 200 ns						
Remote ON - OFF	Input signal: 0 to 3.3 - 5.0 V TTL						
frequency	DC - 500 KHz						

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extinction ratio	1 : inf
Rise / Fall time	< 500 ns
Maximum base plate temperature	50 °C
Total system power consumption	< 10 W
Communication	RS - 232 or USB
Model number structure	Wavel-06-01-pwr-100 (CDRH: Control box with key-switch included)
	Wavel-06-01-pwr-200 (OEM: Auto - start mode)
Warranty	12 months
Note	Output beam diameter can be tailored to specific customer requirements

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