

## Diode Collimated Lasers

### Detailed Specification

Output Wavelength	405nm, 445nm,450nm,635m,650nm,660nm,730nm,750nm,808nm,830nm,850nm,880nm,915nm,980nm
Output Power	Maximum up to 6000mW, upon to the wavelength
Beam Mode	TE <sub>00</sub> or Near TEM <sub>00</sub>
Operating Mode	CW
Beam Divergence, Full Angle	1.0 ± 0.1mrad or 1.5 ± 0.1mrad or OEM request
Beam Diameter (1/e <sup>2</sup> ) @ Exit	3.5 ± 0.1mm or 5x8mm or OEM request
Power Stability	3% (rms, over 4 hours, T= 25°C)
Polarization, Linear	100:1
Modulation	Analog (10KHz) or TTL modulation (10KHz, 30KHz optional )

### OEM Service and Design

- [1] 0.1mrad ~ 1.0mrad beam divergence is available upon request.
- [2] Ultra-Stability (<1% rms, over 24 hours, 25°C) is available upon request.
- [3] polarization maintaining fiber coupling or single mode fiber coupling is available upon request
- [4] Non-Gaussian laser line output (fan angle: 7° ~90° , line uniformity best down to 10%) is available upon request
- [5] Removable Powell lenses or fibers is available upon request
- [6] 30KHz TTL modulation (0=laser off, 1=laser on) or 10KHz Analog modulation (0~5VDC) is available upon request.
- [7] TTL+ (0=laser off, 1=laser on), TTL-(0=laser on, 1=laser off) is available upon request
- [8] Other OEM design or service is available upon request

### Reliability

Warm Up Time	<10minutes
Operating Temperature, Case	0°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
Expected Operation Lifetime	10000 hours
Warranty	12 months

**Note:** The Laser could be operated without extra heat sink. Do not restrict air circulation around the device. Also do not place the laser in a thermal insulating material, such as foam plastic. A metal heat is always recommended and it can be used to maximize the performance and life time of the laser. Heat can have an adverse effect on laser diodes, including decreased output power.

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Leading-Tech Laser has been the professional manufacturers and original suppliers of DPSS Lasers with top quality, unbeatable prices, prompt delivery and the best technical support and services for the customers all over the world.