

LTL532S 532nm DPSS Low Noise Laser

Detailed Specification

Output Wavelength	532nm±1nm
Output Power	10~100mW
Beam Mode	TEM ₀₀
Longitude Mode	Single
Operating Mode	CW
Mode Quality (M ²)	<1.2
Beam Divergence, Full Angle	2.0 ± 0.2mrad
Beam Diameter (1/e ²) @ Exit	1.5 ± 0.2mm
Amplitude Noise (20Hz to 20MHz)	<0.5% rms
Power Stability	3% (rms, over 2 hours, T= 25°C)
Polarization, Linear	100:1
Modulation	Analog (10KHz) or TTL modulation (10KHz, 30KHzoptional)
Residual IR	<0.1%

Leading-Tech Laser Co.,LTD

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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.

Features

Current visible

ESD protection

Power adjustable

LD temperature stabilized

LD current full protection

OEM Service and Design

[1] 0.1mrad ~ 1.0mrad beam divergence is available upon request.

[2] Better Stability (<1% rms, over 2 hours, 25°C) or ultra-Stability (<1% rms, over 24 hours, 25°C) is available upon request.

[3] Removable Powell lenses or fibers is available upon request

[4] polarization maintaining fiber coupling or single mode fiber coupling is available upon request

[5] Non-Gaussian laser line output (fan angle: 7° ~90° , line uniformity best down to 10%) 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

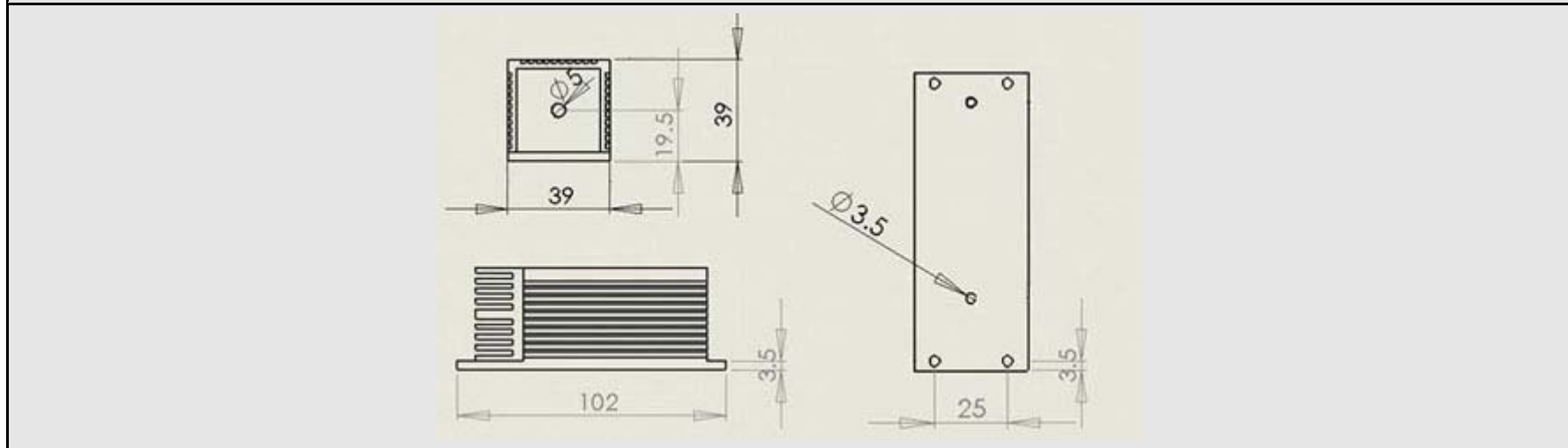
Warm Up Time	<10minutes
Operating Temperature, Case	0°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
Expected Operation Lifetime	10000 hours
Warranty	12 months

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.

Mechanical Parameter

Dimensions of Laser Head	102 × 39 × 39mm		
Weight of Laser Head	0.5Kg		
Power Supply	ADR-1800	ADR-1805	DDR-2012
	FDA PSU	LED Current Visible PSU	12VDC Driver
Dimensions of Power Supply	150 × 110 × 48mm	87 × 50 × 32mm	105 × 72 × 30mm
Input Volage	85~240VAC, 50/60Hz	85~240VAC, 50/60Hz	12VDC
Weight of Power Supply	0.6Kg	0.1Kg	0.1Kg

Mechanical Drawing (Laser Head)



Mechanical Drawing (Power Supply)



