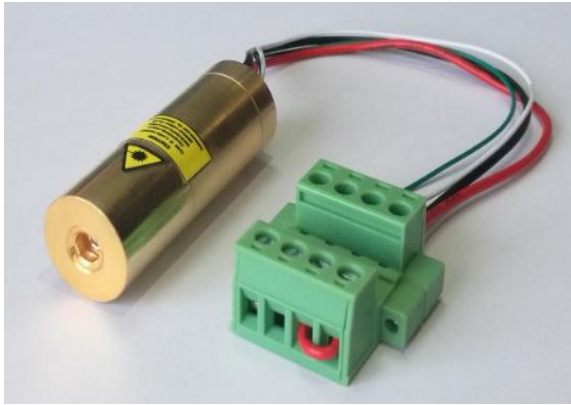


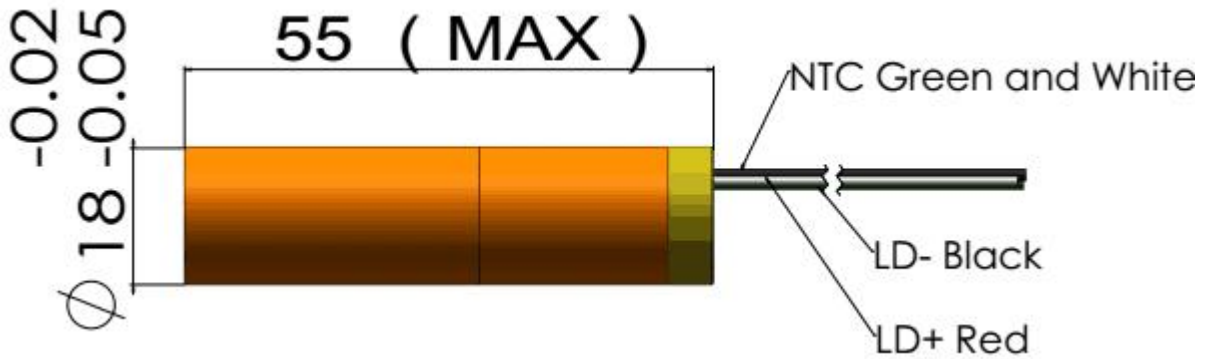
# Yellow 571nm Laser Module



**Y571D500-18x55-30**

- Features**
- DPSS Laser
  - High Power
  - High Reliability
  - Yellow Laser

## Dimensions (Unit: mm)



Specifications				
Model Number		Y571D500-18x55-30		
<b>Mechanical Specifications</b>		<i>Min</i>	<i>Typ</i>	<i>Max</i>
Laser Head	Diameter (mm)	17.95	-	17.98
	Length (mm)	-	-	55
	Weight (g)	-	-	150
Housing Material		Brass with gold-plating		
<b>Optical Specifications</b>		<i>Min</i>	<i>Typ</i>	<i>Max</i>
Wavelength (nm)		567	571	575
Output Power (mW)		500	-	-
Power Stability at const. Temperature <sup>(1)</sup>		-	+/- 5%	+/- 10%
Output Power Mode		CW		
Laser Class		3B		

(1) Test after max. 3 minutes

<b>Beam Specifications</b>		<b>Min</b>	<b>Typ</b>	<b>Max</b>
Beam Divergence (mrad) <sup>(1)</sup>		-	30	40
Beam Waist (μm)		-	300	-
Beam Alignment Tolerance	Position (Δr, mm)	-	-	0.5
	Off-axis Angle (mrad)	-	35	60
Beam Diameter at Output Window (mm)		-	0.5	
Beam Roundness		-	-	-
Beam Mode Longitude		Multi		
Beam Mode Transverse		TEM <sub>n</sub> 1		
Polarization Ratio (Linear)		100:1	-	-
Residual IR		-	-	3%
<b>Electrical Specifications</b>		<b>Min</b>	<b>Typ</b>	<b>Max</b>
Power Type		ACC/CW input		
LD Voltage (DC, V)		1.8	2	2.3
LD Operating Current (mA) at 2V		-	5,000	6,000
Thermistor Constants		A = 2.231e <sup>-3</sup> B = 4.694e <sup>-5</sup> C = 0.884e <sup>-6</sup>		
Thermistor Resistance		6.6KΩ@35°C    8.2KΩ@30°C 10.0KΩ@25°C    12.3KΩ@20°C 16.4KΩ@15°C    18.5KΩ@10°C		
Power Consumption (W) at 25°C		-	10	13.8
Housing Isolation		No		
ESD protection		No		
Wire Length (mm)		200 (+/-50)		
Wire Type <sup>(2)</sup>		20AWG / 28AWG		
<b>Reliability</b>		<b>Min</b>	<b>Typ</b>	<b>Max</b>
Operating Temperature Range (°C) <sup>(3)</sup>		T-0.3	T	T+0.3
Storage Temperature (°C)		0	-	40
Environmental Humidity (RH, %)		5	-	85
Lifetime (hours) (MTTF at 25°C)		5,000	-	-
RoHS Compliance Declaration		Yes		

(1) Full Angle (1/e<sup>2</sup>)

(2) 20AWG for LD wires. 28AWG for NTC wires

(3) T is one optimum LD operating temperature between 25 to 30°C reflected by NTC resistance and will be advised in each test report.

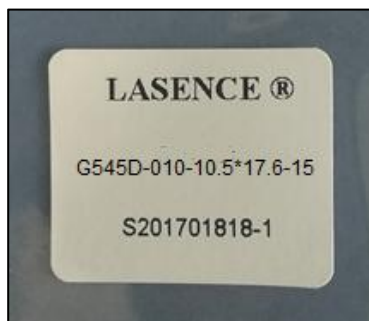
## Remarks

- Product ID for placing orders: Y571D500-1855-30
- Datasheet Version: 1
- No Photodiode
- Customer is responsible for suitable heat sinking
- Label on plastic bag (see picture of another product's label in picture 2):
  - LASENCE®
  - Y571D500-18x55-30
  - Lasence Order Number - Module Number
  - Label Length: 30mm (+/-3mm); Width: 25mm (+/-3mm)
- Anti-static protector for transportation (see picture 4)
- Example of beam spot (see picture 5)
- Laser Beam Warning Label on module housing (see picture 1)
- Laser Marking on module housing (see picture 3):
  - Lasence Material Code
  - Lasence Order Number - Module Number

**Picture 1**



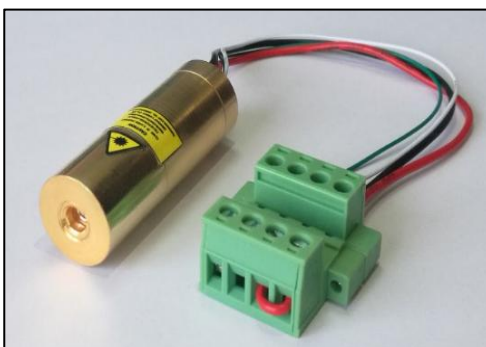
**Picture 2**



**Picture 3**



**Picture 4**



**Picture 5**

