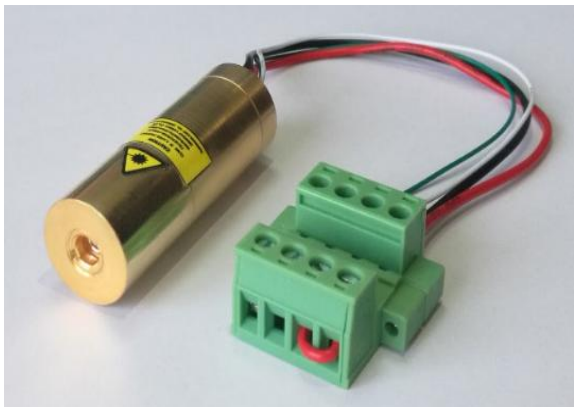
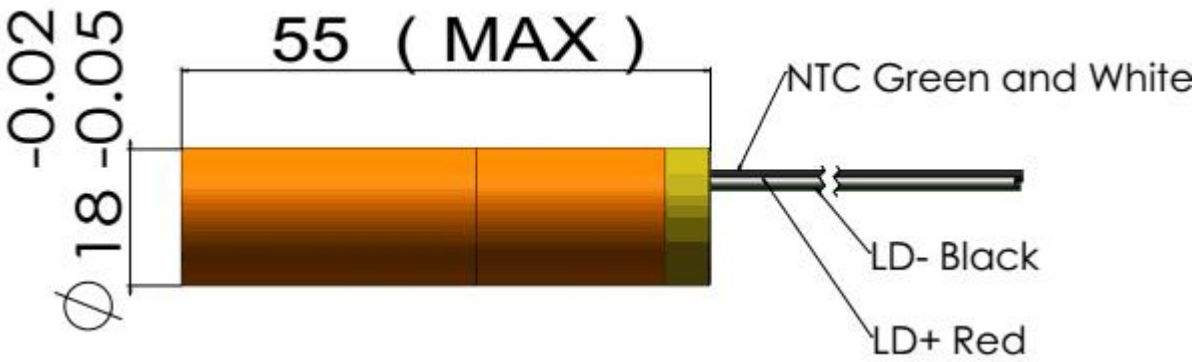


Y561D050-18x55-30

Features

- **DPSS Laser**
- **Yellow Laser**
- **Fast Rise Time**
- **High Reliability**
- **with NTC**

Dimensions (Unit: mm)



Specifications				
Model Number		**Y561D050-18x55-30**		
Mechanical Specifications		***Min***	***Typ***	***Max***
Laser Head	Diameter (mm)	17.95	-	17.98
	Length (mm)	-	-	55
	Weight (g)	-	-	200
Housing Material		Brass with gold-plating		
Optical Specifications		***Min***	***Typ***	***Max***
Wavelength (nm)		559	561	563
Output Power (mW) at T[(1)] at 2.5A		50	60	-
Output Power (mW) from -30 to 50℃		25	-	-
Power Stability at const. Temperature[(2)]		-	+/- 5%	+/- 10%
Output Power Mode		CW		
Laser Class		3B		

(1) see remarks in page 2 no# 4

(2) after max. 3 minutes

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Tel: +86-532-66731598 Fax: +86-532-66731599 Email: sales@lasence.com Website: www.lasence.com

Beam Specifications		***Min***	***Typ***	***Max***
Beam Divergence (mrad)[1]		-	30	50
Beam Waist (μm)		-	250	-
Beam Alignment Tolerance	Position (Δr, mm)	-	-	0.5
	Off-axis Angle (mrad)	-	35	50
Beam Diameter at Output Window (mm)		-	0.5	
Beam Roundness		-	70%	-
Beam Mode Longitude		Multi		
Beam Mode Transverse		TEMno[2]		
Polarization Ratio (Linear)		100:1	-	-
Residual IR		-	-	3%
Electrical Specifications		***Min***	***Typ***	***Max***
Power Type		ACC		
LD Voltage (DC, V)		1.8	2	2.3
LD Operating Current (mA) at 2V		-	2,000	2,500
Thermistor Constants		$A = 2.231e^{-3}$ $B = 4.694e^{-5}$ $C = 0.884e^{-6}$		
Thermistor Resistance		6.6KΩ@35℃ 8.2KΩ@30℃ 10.0KΩ@25℃ 12.3KΩ@20℃ 16.4KΩ@15℃ 18.5KΩ@10℃		
Power Consumption (W) at 25℃		-	4	5.75
Housing Isolation		No		
ESD protection		No		
Wire Length (mm)[3]		200 (+/-50)		
Wire Type[3]		20AWG / 28AWG		
Reliability		***Min***	***Typ***	***Max***
Operating NTC Temperature Range (℃)		T-0.3	T[4]	T+0.3
Warm-up Time (minutes) at 2.5A[5]		-	3	5
Storage Temperature (℃)		0	-	40
Environmental Humidity (RH, %)		5	-	85
Lifetime (hours) (MTTF at T[4])		5,000	-	-
RoHS Compliance Declaration		Yes		

[1] Full Angle ($1/e^2$)
[2] See picture 5 on page 3 for example of beam spot
[3] Wire Length can be customized. 20AWG for LD wires. 28AWG for NTC wires.
[4] T is one optimum LD operating temperature between 15 to 35℃ reflected by NTC resistance and will be advised in each test report.
[5] Dot (~10mW) can be seen after 0.2s if >1A