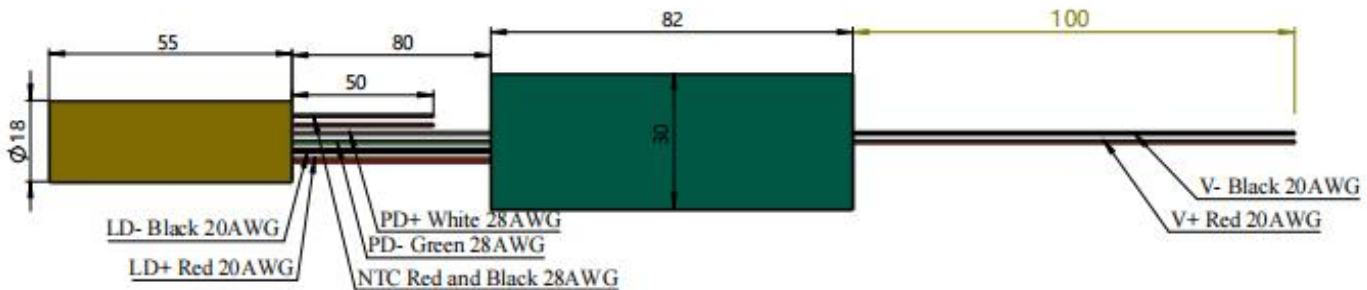


Y561D300-18x55-30

Features

- DPSS Laser
- 300mW@561nm
- Fast Rise Time
- High Reliability

Dimensions (Unit: mm)



Specifications

Model Number		Y561D300-18x55-30		
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)		560	561	563
Output Power (mW) at T°C ⁽¹⁾		-	300	-
RMS Power Stability at T°C ⁽²⁾		-	+/- 5%	+/- 10%
Output Power Mode		CW		
Laser Class		3B		

(1) T is the optimal temperature point for module operation. See page 2 note⁽³⁾

(2) after max. 3 minutes

Beam Specifications		Min	Typ	Max
Beam Divergence (mrad) ⁽¹⁾		-	30	40
Beam Waist (μm)		-	250	-
Beam Alignment Tolerance	Position (Δr, mm)	-	-	0.5
	Off-axis Angle (mrad)	-	35	60
Beam Diameter at Output Window (mm)		-	0.5	
Beam Roundness		-	70%	-
Beam Mode Longitude		Multi		
Beam Mode Transverse		TEM _{n0}		
Polarization Ratio (Linear)		100:1	-	-
Residual IR		-	-	3%
Electrical Specifications		Min	Typ	Max
Power Type		APC		
PCB Voltage (DC, V)		-	12	-
PCB Operating Current (mA) at 12V		-	1000	1500
Thermistor Constants		A = 2.231e ⁻³ B = 4.694e ⁻⁵ C = 0.884e ⁻⁶		
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		-	8	11.5
Housing Isolation		No		
ESD protection		No		
Wire Length (mm)		100 (+/-20)		
Wire Type ⁽²⁾		20AWG / 28AWG		
Reliability		Min	Typ	Max
Operating Case Temperature Range (°C) ⁽³⁾		T-1	T	T+1
Rise Time (Seconds) at 5A		-	-	0.1
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/e²)

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

(3) T is the optimal temperature point for module operation, it will be provided in each test report.