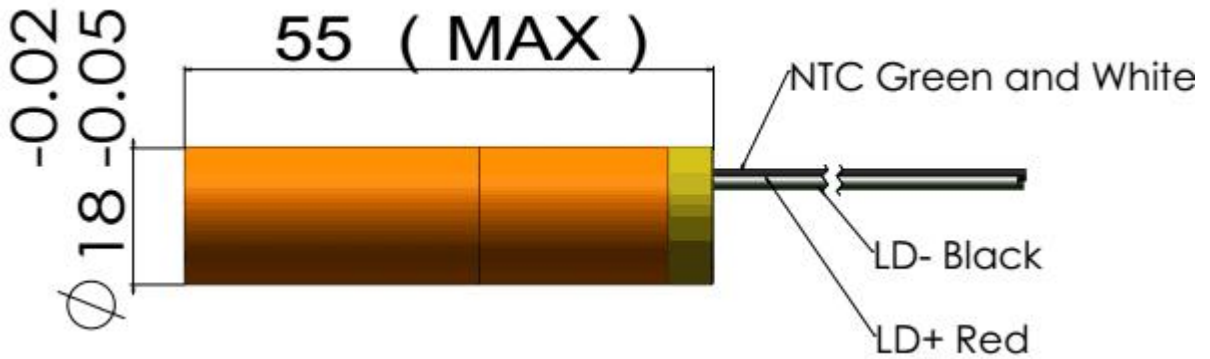


G555D500-18x55-40

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

Dimensions (Unit: mm)



Specifications				
Model Number		G555D500-18x55-40		
Mechanical Specifications		<i>Min</i>	<i>Typ</i>	<i>Max</i>
Laser Head	Diameter (mm)	17.95	-	17.98
	Length (mm)	-	-	55
	Weight (g)	-	-	200
Housing Material		Brass with gold-plating		
Optical Specifications		<i>Min</i>	<i>Typ</i>	<i>Max</i>
Wavelength (nm)		551	553	555
Output Power (mW) at T ⁽¹⁾ at 6A		500	-	-
Output Power (mW) from -30 to 50°C		300	-	-
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

Beam Specifications		Min	Typ	Max
Beam Divergence (mrad) ⁽¹⁾		-	40	50
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 _{n0} ⁽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		-	4,500	6,000
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		-	3	4.6
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 (°C)		T-0.3	T ⁽⁴⁾	T+0.3
Storage Temperature (°C)		0	-	40
Environmental Humidity (RH, %)		5	-	85
Lifetime (hours) (MTTF at T ⁽⁴⁾)		5,000	-	-
RoHS Compliance Declaration		Yes		

(1) Full Angle (1/e²)

(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°C reflected by NTC resistance and will be advised in each test report.