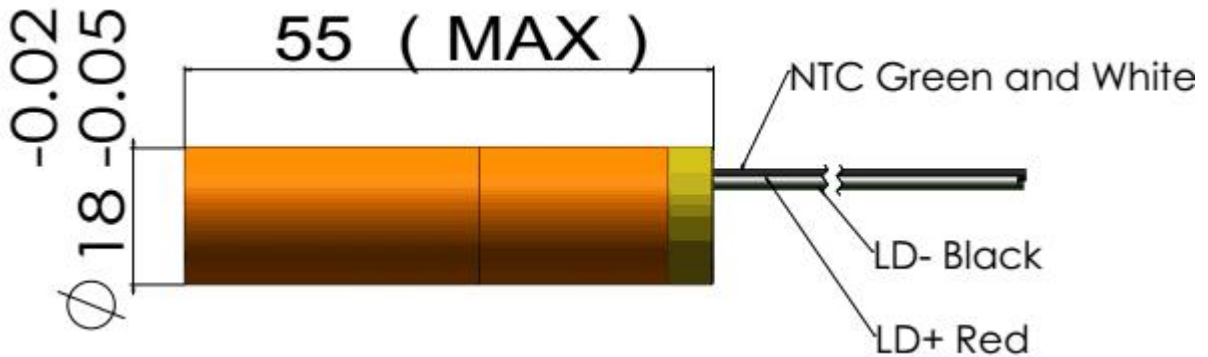


G545D1200-18x55-40

Features

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

Dimensions (Unit: mm)



Specifications				
Model Number		G545D1000-18x55-40		
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)		543	545	547
Output Power (mW) at T ⁽¹⁾ at 5.8A		1150	1200	-
Output Power (mW) from -30 to 50°C		500	-	-
Power Stability at const. Temperature ⁽²⁾		-	+/- 2%	+/- 5%
Output Power Mode		CW		
Laser Class		4		

(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 Alignment Tolerance	Position (Δr , mm)	-	-	0.5
	Off-axis Angle (mrad)	-	35	60
Beam Diameter at Output Window (mm)		-	0.5	
Beam Roundness		-	NA ⁽²⁾	-
Beam Mode Longitude		Multi		
Beam Mode Transverse		TEM ₁₀ ⁽²⁾		
Polarization Ratio (Linear)		100:1	-	-
M ²		-	-	50
Residual IR		-	-	1%
Electrical Specifications		Min	Typ	Max
Power Type		ACC		
LD Voltage (DC, V)		1.8	2	2.3
LD Operating Current (mA) at 2V		-	5,800	6,000
Thermistor Constants		A = 2.231e ⁻³ B = 4.694e ⁻⁵ C = 0.884e ⁻⁶		
Thermistor Resistance		6.6K Ω @35 $^{\circ}$ C 8.2K Ω @30 $^{\circ}$ C 10.0K Ω @25 $^{\circ}$ C 12.3K Ω @20 $^{\circ}$ C 16.4K Ω @15 $^{\circ}$ C 18.5K Ω @10 $^{\circ}$ C		
Power Consumption (W)		-	10	12.65
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 ($^{\circ}$ C)		29	30	31
Storage Temperature ($^{\circ}$ 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.