

GLM-555-050-1855

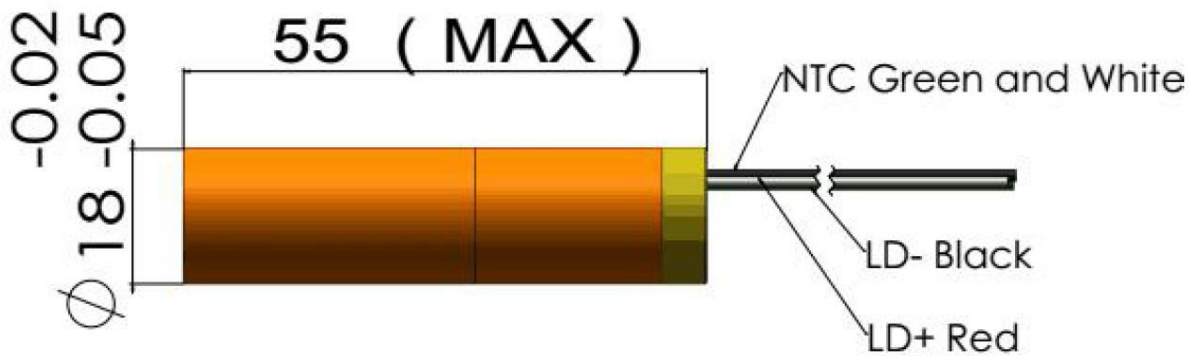
Green Laser Module

Features

- Wide Temperature Range
- Fast Rise Time
- High Reliability



Dimensions (mm)



Specifications					
Model Number		GLM-555-200-1855			
Mechanical Specifications		Specs			Conditions
		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					
Wavelength (nm)		549	555	561	
Output Power (mW) at T ⁽¹⁾ at 2.5A		50	60	-	
Output Power (mW) from -30 to 50°C		25		-	
Power Stability at constant Temperature		-	±5%	±10%	after max. 3 min
Output Power Mode		-	CW	-	
Laser Class		-	3B	-	
Beam Specifications					
Beam Divergence (mrad)		-	30	40	full angle, 1/e ²
Beam Waist (µm)		-	250	-	
Beam Alignment Tolerance	Position (Δr, mm)	-	-	0.5	at output Window
	Off-axis Angle (mrad)	-	35	60	full angle
Beam Diameter (mm)		-	0.5	-	at output Window
Beam Roundness		-	70%	-	
Beam Mode Longitudinal		Multimode			
Beam Mode Transverse		TEM _{n0}			see example of beam spot
Polarisation Ratio		100:1	-	-	
Residual IR		-	-	3%	
Electrical Specifications					
PCB Type		ACC			
Operating Voltage (V)		1.8	2.0	2.3	DC
Operating Current (mA)		-	2000	2500	at 2V
Housing Isolation		No			
ESD Protection		No			
Power Consumption (W)		-	4	5.75	at 25°C

Electrical Specifications	Specs			Conditions
	Min	Typ	Max	
Wire Length (mm)	200±50			Others on request
Wire Type	20AWG for LD wires 28AWG for NTC wires			
Thermistor Resistance	10kΩ			@25°C
Thermistor Constants	A = 2.231e ⁻³ B = 4.694e ⁻⁵ C = 0.884e ⁻⁶			
Reliability				
Operating NTC Temperature Range (°C)	T-0.3	T ⁽¹⁾	T+0.3	
Rise Time (minutes) ⁽²⁾	-	3	5	at 2.5A
Storage Temperature (°C)	0	-	40	
Environmental Humidity (RH, %)	5	-	85	
Lifetime (hours)	5000	-	-	MTTF at T ⁽¹⁾

(1) T is one optimum LD operating temperature between 15 to 35°C reflected by NTC resistance and will be advised in each test report.

(2) to 50% of full Output Power. Dot (~10mW) can be seen after 0.2s if >1A

Example of Beam Spot

