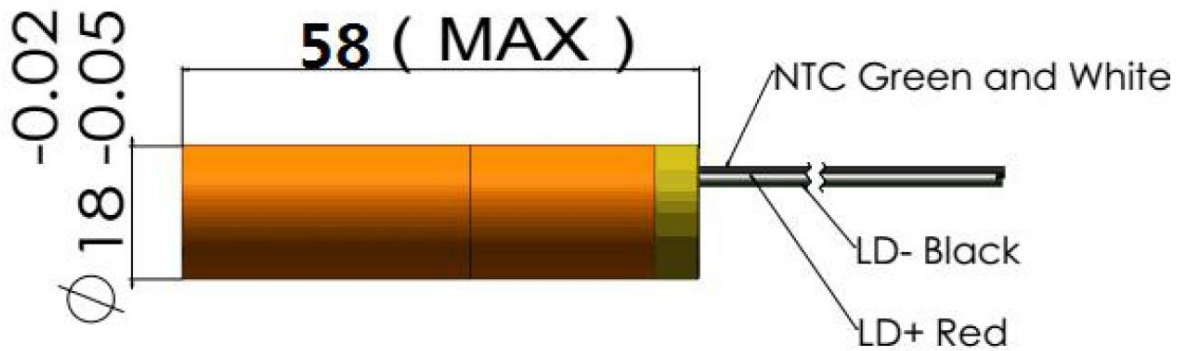


GLM-520-1000-1858**Green Laser Module****Features**

- Fast Rise Time
- High Reliability
- Wide Temperature Range

**Dimensions (mm)**

Specifications					
Model Number		GLM-520-1000-1858			
Mechanical Specifications		Specs			Conditions
		Min	Typ	Max	
Laser Head	Diameter (mm)	17.95	-	17.98	
	Length (mm)	-	-	58	
	Weight (g)	-	-	250	
Housing Material		Brass with gold plating			
Optical Specifications					
Wavelength (nm)		519	520	524	
Output Power (mW) at 24°C		900	1000	-	at 6A
Output Power (mW) from -30°C to 50°C		300	-	-	at 6A
Power Stability at constant Temperature		-	±2%	±5%	after max. 3 min
Output Power Mode		-	CW	-	
Laser Class		-	4	-	
Beam Specifications					
Beam Divergence (mrad)		-	40	50	full angle, 1/e ²
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		-	NA	-	see attachment
Beam Mode Longitudinal		Multimode			
Beam Mode Transverse		TEM ₁₀			see attachment
Polarisation Ratio		100:1	-	-	
M ²		-	-	50	
Residual IR		-	-	1%	
Electrical Specifications					
PCB Type		ACC			
Operating Voltage (V)		1.8	2.0	2.3	DC
Operating Current (mA)		-	5500	6000	at 2V
Housing Isolation		No			
ESD Protection		No			
Power Consumption (W)		-	13	14	at 24°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 Case Temperature (°C)	24	25	26	
Rise Time (seconds) (5.5A / -30°C to 50°C)	-	3	5	to 50% of full power
Storage Temperature (°C)	0	-	40	
Environmental Humidity (RH, %)	5	-	85	
Lifetime (hours)	5000	-	-	MTTF at 25 °C

Example of Beam Spot

