

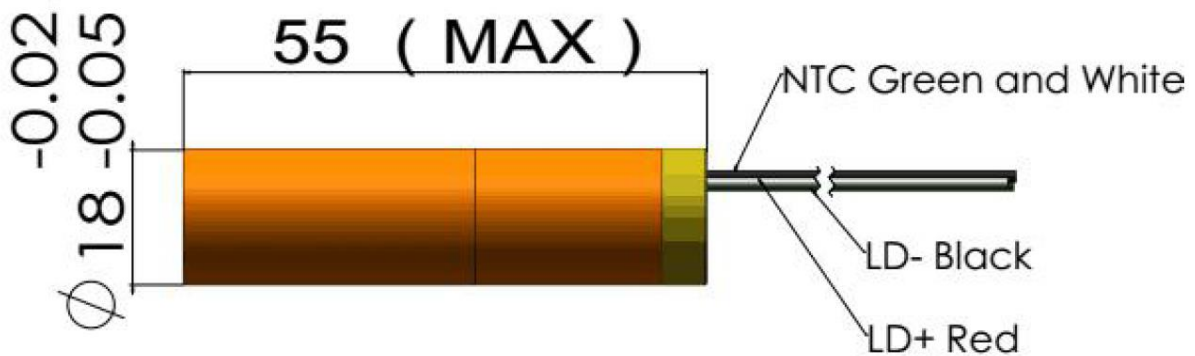
GLM-577-500-1855 Yellow Laser Module

Features

- Fast Rise Time
- High Reliability



Dimensions (mm)



Specifications					
Model Number		GLM-577-500-1855			
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)		575	577	579	
Output Power (mW) at 25°C		500	-	-	
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)		-	300	-	
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		-	-	-	
Beam Mode Longitudinal		Multimode			
Beam Mode Transverse		TEM _{n1}			
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)		-	6000	8000	at 2V
Housing Isolation		No			
ESD Protection		No			
Power Consumption (W)		-	12	18.4	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 Case Temperature (°C)	20	-	35	
Rise Time (minutes)	-	3	5	
Storage Temperature (°C)	0	-	40	
Environmental Humidity (RH, %)	5	-	85	
Lifetime (hours)	5000	-	-	MTTF at 25 °C

Example of Beam Spot

