

Green 545nm Laser Module

Wide Temperature Range

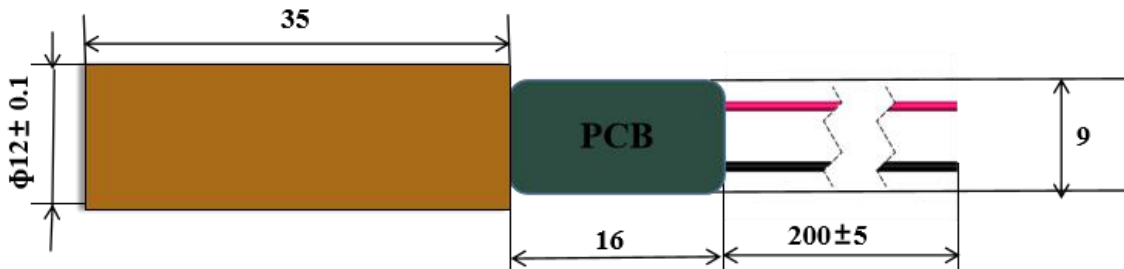


G545D001-12x35-1-10

Features

- DPSS Laser
- 0.7mW@545nm
- Wide Temperature Range
- Fast Rise Time
- High Reliability

Dimensions (Unit: mm)



Specifications

Model Number		G545D001-12x35-1-10		
Mechanical Specifications		Min	Typ	Max
Laser Head	Diameter (mm)	11.9	12	12.1
	Length (mm)	34.7	35	35.3
	Weight (g)	-	-	25
PCB/Driver	Width (mm)	8	9	10
	Length (mm)	15	16	17
Housing Material		Brass with gold-plating		
Optical Specifications		Min	Typ	Max
Wavelength (nm)		543	545	547
Output Power (mW) from -10 to 40°C		0.4	0.7	0.99
Output Power Mode		CW		
Laser Class		II		

(1) after max. 3 minutes

Beam Specifications		Min	Typ	Max
Beam Divergence (mrad) ⁽¹⁾		-	-	1.2
Beam Alignment Tolerance	Position (Δr , mm)	-	-	0.5
	Off-axis Angle (mrad) ⁽¹⁾	-	-	20
Beam Roundness		70%	80%	100%
Beam Mode Longitude		Multi		
Beam Mode Transverse		TEM ₀₀		
Electrical Specifications		Min	Typ	Max
Power Type		APC		
PCB Voltage (DC, V)		2.5	3	3.5
PCB Operating Current (mA)		-	-	300
Housing Isolation		No		
ESD protection		No		
LD Wire Length (mm) ⁽²⁾		200 (+/-5)		
LD Wire Type ⁽²⁾		24AWG		
Reverse Voltage Protection		YES		
Reliability		Min	Typ	Max
Operating Case Temperature Range (°C)		-10	-	40
Rise Time (seconds) ⁽³⁾		-	0.5	1
Storage Temperature (°C)		-20	-	65
Environmental Humidity (RH, %)		5	-	85
Lifetime (hours) (MTTF at 25°C)		5,000	-	-
RoHS Compliance Declaration		Yes		

(1) Full Angle ($1/e^2$), Max 1mrad is optional.

(2) 24AWG for APC wires.

(3) to 75% of full Output Power