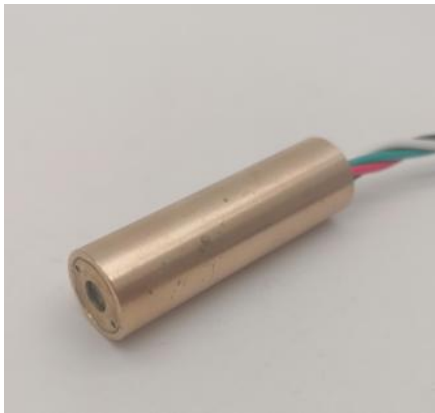


Green Laser Module

Wide Temperature Range

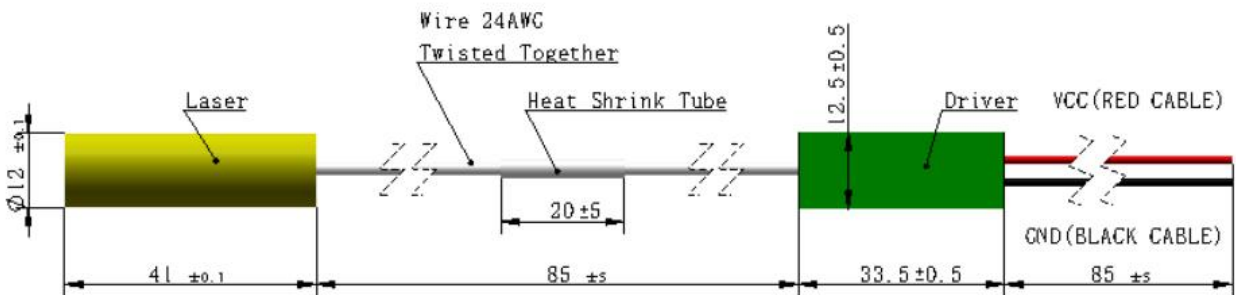


G551D005-1241-1.7-(15-50)-11

Features

- Wide Temperature
- Mini Size
- Fast Rise Time
- High Reliability

Dimensions (Unit: mm)



Specifications

Model Number		G551D005-1241-1.7-(15-50)-11		
Mechanical Specifications		Min	Typ	Max
Laser Head	Diameter (mm)	11.9	12.0	12.1
	Length (mm)	34.5	35.0	35.5
	Weight (g)	-	-	20
PCB Size	Width (mm)	12	12.5	13
	Length (mm)	33	33.5	34
Housing Material		Brass		
Optical Specifications		Min	Typ	Max
Wavelength (nm)		549	551	553
Output Power (mW) at 25°C		4	-	5
Power Stability	at const. Temperature	-	-	+/- 5%
	over Temperature Range	-	-	+/- 20%
Output Power Mode		CW		
Laser Class		3R		

Beam Specifications		Min	Typ	Max
Beam Divergence (mrad) ⁽¹⁾		-	1.7	2
Beam Alignment Tolerance	Position (Δr , mm) ⁽²⁾	-	0.3	-
	Off-axis Angle (mrad) ⁽³⁾	-	-	15
Beam Roundness		70%	-	100%
Beam Mode Longitude		Multi		
Beam Mode Transverse		TEM ₀₀		
M ²		1.2	-	1.4
Residual IR		-	-	4%
Electrical Specifications		Min	Typ	Max
Power Type		APC		
Driver Voltage (DC, V)		3.0	5.0	6.0
Driver Operating Current (mA) at 5V ⁽⁴⁾		-	-	200
Housing Isolation		No		
ESD protection		No		
Wire Length (mm)		85±5		
Wire Type		UL1007 24AWG		
Reverse Voltage Protection		No		
Reliability		Min	Typ	Max
Operating Case Temperature Range (°C)		15	-	50
Rise Time (Seconds) ⁽⁵⁾		-	-	2
Storage Temperature (°C)		-20	-	60
Environmental Humidity (RH, %)		5	-	85
Lifetime (hours) (MTTF at 25°C)		5,000	-	-
RoHS Compliance Declaration		Yes		

(1) Full Angle ($1/e^2$)

(2) at Output Window

(3) Half Angle

(4) over Operating Case Temperature Range

(5) to 75% of full Output Power