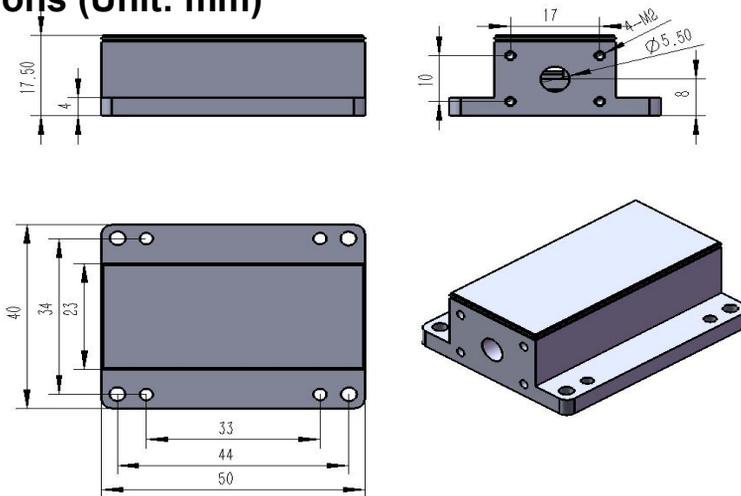


G532D3000-50x40x18-10

Features

- DPSS Laser
- 3000mW@532nm
- Fast Rise Time
- Compact Size

Dimensions (Unit: mm)



Specifications

Model Number		G532D3000-50x40x18-10		
Mechanical Specifications		Min	Typ	Max
Laser Head	Width x Height (mm)	-	40X17.5	-
	Length (mm)	-	-	50
	Weight (g)	-	-	500
Housing Material		aluminium		
Optical Specifications		Min	Typ	Max
Wavelength (nm)		531	532	533
Output Power (mW)		3000	4000	-
Power Stability at const. Temperature ⁽¹⁾		-	1%	3%
Output Power Mode		CW		
Laser Class		4		

⁽¹⁾ after max. 3 minutes (RMS)

Beam Specifications		Min	Typ	Max
Beam Divergence (mrad) ⁽¹⁾		-	10	20
Beam Waist (μm)		-	200	-
Beam Alignment Tolerance	Position (Δr, mm)	-	-	0.5
	Off-axis Angle (mrad)	-	35	60
Beam Diameter at Output Window (mm)		1.2	-	2
Beam Mode Longitude		Multi		
Beam Mode Transverse ⁽²⁾		Multi		
Polarization Ratio (Linear)		100:1	-	-
Residual IR		-	-	3%
Electrical Specifications		Min	Typ	Max
Power Type		ACC		
LD Voltage (DC, V)		1.8	2	2.5
LD Operating Current (mA) at 2V		-	9,500	11,000
Thermistor Constants		A = 2.231e ⁻³ B = 4.694e ⁻⁵ C = 0.884e ⁻⁶		
Thermistor Resistance		6.6KΩ@35°C 8.2KΩ@30°C 10.0KΩ@25°C 12.3KΩ@20°C 16.4KΩ@15°C 18.5KΩ@10°C		
Power Consumption (W) at 25°C		-	19	27.5
Housing Isolation		No		
ESD protection		No		
Wire Length (mm)		200 (+/-50)		
Wire Type ⁽³⁾		9AWG / 12AWG		
Reliability		Min	Typ	Max
Operating Case Temperature Range (°C) ⁽⁴⁾		20	-	35
Warm Time (mins)		-	3	5
Storage Temperature (°C)		0	-	40
Environmental Humidity (RH, %)		5	-	85
Lifetime (hours) (MTTF at 25°C)		5,000	-	-
RoHS Compliance Declaration		Yes		

⁽¹⁾ Full Angle (1/e²)

⁽²⁾ See beam example photo in page 3, it is just one example.
Another laser may be with different beam shapes.

⁽³⁾ 9AWG for LD wires. 12AWG for NTC wires

⁽⁴⁾ Each module has an optimal operating temperature for its case, which falls within the range of 20–35°C. This temperature value will be provided in each test report.

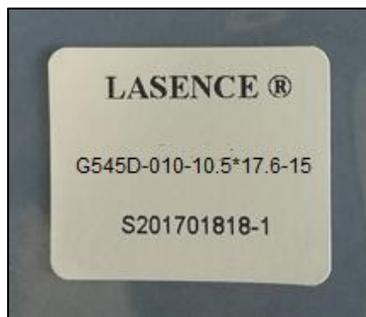
Remarks

- Product ID for placing orders: G532D3000-50x40x18-10
- Datasheet Version: 1
- No Photodiode
- Customer is responsible for suitable heat sinking
- Label on plastic bag (see picture of another product's label in picture 2):
 - LASENCE®
 - G532D3000-40x18-10
 - Lasence Order Number - Module Number
 - Label Length: 30mm (+/-3mm); Width: 25mm (+/-3mm)
- Example of beam spot (see picture3)
- Laser Beam Warning Label on module housing (see example picture 1)
- Laser Marking on module housing (see example picture 2)

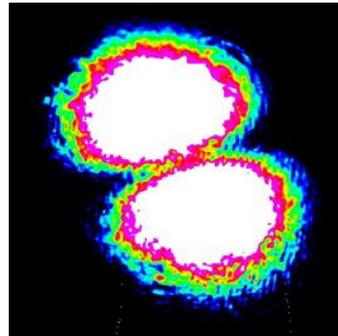
Picture 1



Picture 2



Picture 3



Typical PI Curve (example)