

Green 545nm Fiber Coupled
Laser Module

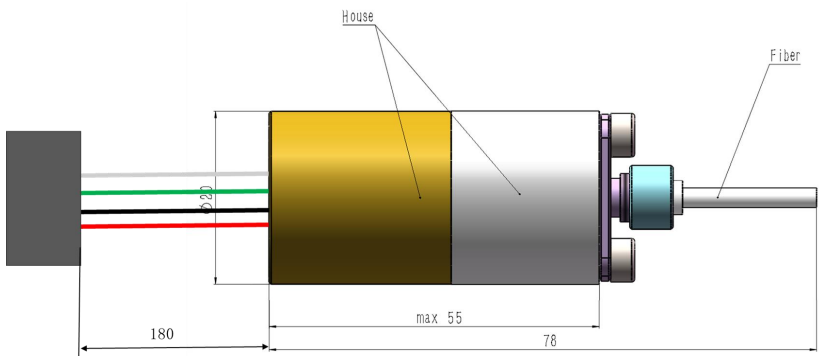


G545D1500-20x55-MMF

Features

- DPSS Laser
- Fiber Coupled
- Fast Rise Time
- High Reliability

Dimensions (Unit: mm)



Specifications				
Model Number		G545D1500-20x55-MMF		
Mechanical Specifications		Min	Typ	Max
Laser Head	Diameter (mm)	19.95	20	20.05
	Length (mm)	-	-	55
	Weight (g)	-	130	-
Housing Material		Brass with gold-plating		
Optical Specifications		Min	Typ	Max
Wavelength (nm)		544	545	546
Spectral Width(FWHM)		-	-	1
Output Power (mW) at 25°C at 10A after fiber		1500	-	-
Power Stability ⁽¹⁾		-	+/- 2%	+/- 5%
Longitudinal Mode		Multi-mode		
Laser Class		4		

⁽¹⁾ at 25°C over 2 hours

Fiber Specifications	Min	Typ	Max
Fiber Type	200um with 3mm loose tube ⁽¹⁾		
Fiber Numerical Aperture	-	0.22	
Fiber Length (m)	-	1	-
Fiber Termination	SMA905 ⁽²⁾		
Bend			
Electrical Specifications	Min	Typ	Max
Power Type	ACC		
LD Voltage (DC, V)	2	2.6	2.7
LD Operating Current (mA) at 2.6V	-	9,500	10,000
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)	-	21.85	27
Housing Isolation	No		
ESD protection	No		
Wire Length (mm) ⁽³⁾	200 (+/-50)		
Wire Type ⁽³⁾	20AWG / 28AWG		
Reliability	Min	Typ	Max
Operating NTC Temperature Range (°C)	20	25	30
Rise Time (seconds) at 9.5A ⁽⁴⁾	-	3	5
Storage Temperature (°C)	0	-	40
Environmental Humidity (RH, %)	5	-	85
Lifetime (hours) (MTTF at T	5,000	-	-
RoHS Compliance Declaration	Yes		

(1) Others can be customized.

(2) FC/PC, FC/APC connector can be cusmoized.

(3) Wire Length can be customized. 20AWG for LD wires. 28AWG for NTC wires.

(4) to 50% of full Output Power. Dot (~10mW) can be seen after 0.2s if >1A

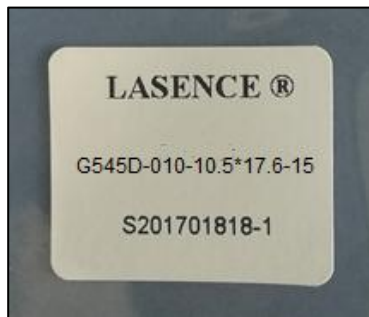
Remarks

- Product ID for placing orders: G545D1500-20x55-MMF
- 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®
 - G545D1500-20x55-MMF
 - Lasence Order Number - Module Number
 - Label Length: 30mm (+/-3mm); Width: 25mm (+/-3mm)
- Anti-static protector for transportation (see example picture 4)
- Example of beam spot (see picture 5)
- Laser Beam Warning Label on module housing (see example picture 1)
- Laser Marking on module housing (see example picture 3):
 - Lasence Material Code
 - Lasence Order Number - Module Number

Picture 1



Picture 2



Picture 3



Picture 4



Picture 5

