

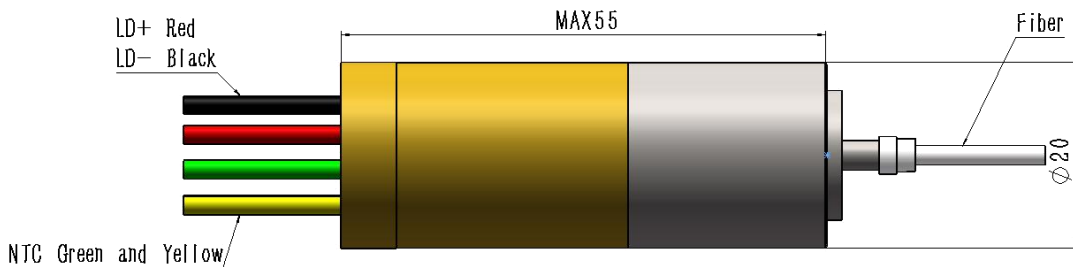


G561D005-20x55-PMF

Features

- DPSS Laser
- Fast Rise Time
- High Reliability
- PM Fiber Coupled
- Laser Welded Fiber Connection

Dimensions (Unit: mm)



Specifications

Model Number		G561D005-20x55-PMF		
Mechanical Specifications		Min	Typ	Max
Laser Head	Diameter (mm)	19.95	-	19.98
	Length (mm)	-	-	55
	Weight (g)	-	-	200
Housing Material		Brass with gold-plating & Stainless Steel		
Optical Specifications		Min	Typ	Max
Wavelength (nm)		554	561	564
Output Power (mW) at T ⁽¹⁾		4	-	7
Power Stability at const. Temperature ⁽²⁾		-	+/- 5%	+/- 10%
RMS Noise (%) (20 Hz to 20 MHz)		-	3%	5%
Output Power Mode		CW		
Laser Class		3B		

⁽¹⁾ See remarks on page 2 number (2)

⁽²⁾ Test after max. 3 minutes

Fiber Specifications	Min	Typ	Max
Fiber Type ⁽¹⁾	3.5/125um PM fiber with 0.9mm loose tube		
Fiber Numerical Aperture	-	0.12	-
Extinction Ratio ⁽¹⁾	-	16dB	-
Fiber Length (m)	-	1	-
Fiber Termination ⁽²⁾	FC/PC		
Electrical Specifications	Min	Typ	Max
Power Type	ACC		
LD Voltage (DC, V)	1.8	2	2.3
LD Operating Current (mA) at 2V	-	4,500	7,500
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		
Housing Isolation	No		
ESD protection	No		
Wire Length (mm) ⁽³⁾	200 (+/-50)		
Wire Type ⁽³⁾	20AWG / 24AWG		
Reliability	Min	Typ	Max
Operating NTC Temperature Range (°C)	T-0.3	T ⁽⁴⁾	T+0.3
Storage Temperature (°C)	0	-	40
Environmental Humidity (RH, %)	5	-	85
Lifetime (hours) (MTTF at 25°C)	5,000	-	-
RoHS Compliance Declaration	Yes		

⁽¹⁾ The fiber type will be finally decided once more tests are made. We are evaluating the 3.5um fiber and 4.2um fiber. Extinction Ratio of 4.2um fiber is 22dB.

⁽²⁾ FC/APC optional.

⁽³⁾ Wire Length can be customized. 20AWG for LD wires, 24AWG for NTC wires.

⁽⁴⁾ T is one optimum LD operating temperature between 25 to 30°C reflected by NTC resistance and will be advised in each test report.

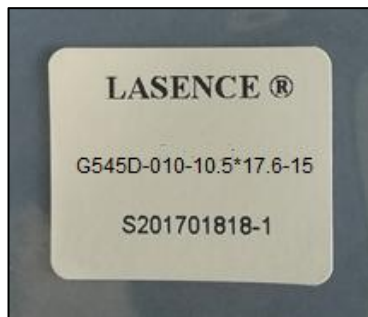
Remarks

- Product ID for placing orders: G561D005-2055-PMF
- 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®
 - G561D005-20x55-PMF
 - Lasence Order Number - Module Number
 - Label Length: 30mm (+/-3mm); Width: 25mm (+/-3mm)
- Anti-static protector for transportation (see picture 4)
- Laser Beam Warning Label on module housing (see picture 1)
- Laser Marking on module housing (see picture 3):
 - Lasence Material Code
 - Lasence Order Number - Module Number

Picture 1



Picture 2



Picture 3



Picture 4

