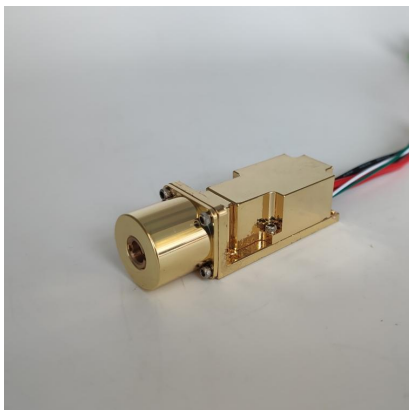


Yellow 577nm Laser Module

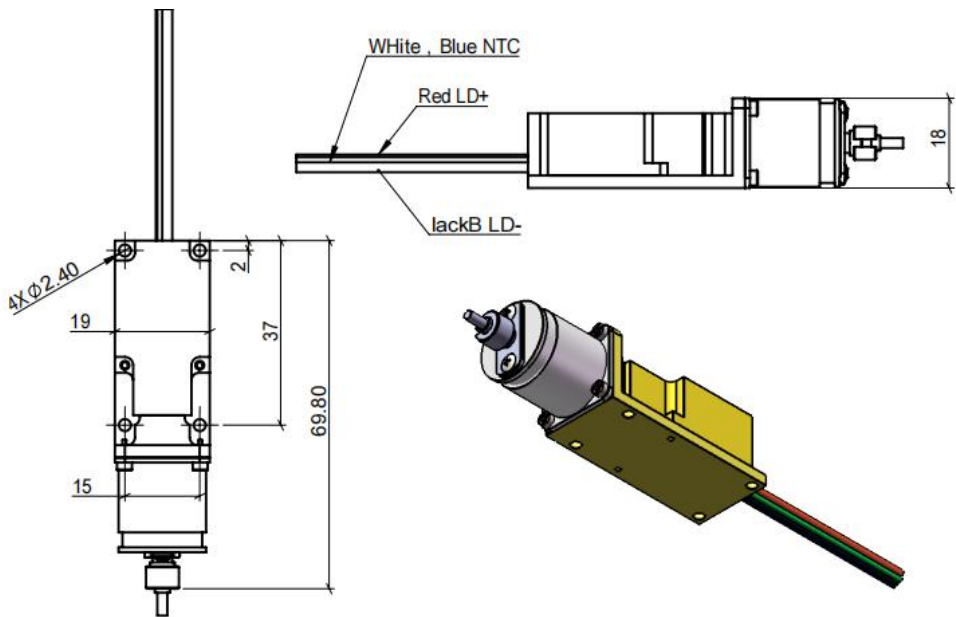


Y577D1000-19x18x70-MMF

Features

- DPSS Laser Module
- Yellow Laser
- Fiber Coupled
- Fast Rise Time

Dimensions (Unit: mm)



Specifications

Specifications				
Model Number		Y577D1000-19x18x70-MMF		
Mechanical Specifications		Min	Typ	Max
Laser Head	Width x Height (mm)	-	19X18	-
	Length (mm)	-	-	70
	Weight (g)	-	-	300
Housing Material		Brass with gold-plating		
Optical Specifications		Min	Typ	Max
Wavelength (nm)		574	577	580
Output Power (mW) @ 25°C		800	1000	-

Power Stability at const. Temperature ⁽¹⁾		-	+/- 1%	+/- 3%
Output Power Mode		CW		
Laser Class		4		
Beam Specifications		Min	Typ	Max
Fiber	Core Diameter(μm)	-	50	-
	NA	-	0.22	-
	Length(m)	-	1.5	-
	Connector	SMA905		
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		-	13,000	15,000
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		-	26	37.5
Housing Isolation		No		
ESD protection		No		
Wire Length (mm)		200 (+/-50)		
Wire Type ⁽²⁾		14AWG / 28AWG		
Reliability		Min	Typ	Max
Operating Case Temperature Range (°C)		15	-	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⁾ after max. 3 minutes (RMS)

⁽²⁾ 14AWG for LD wires. 28AWG for NTC wires

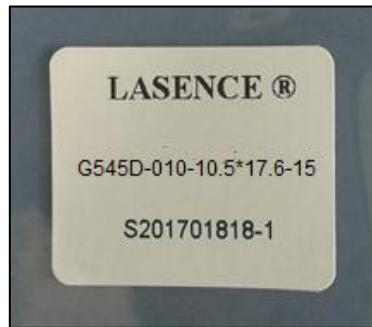
Remarks

- Product ID for placing orders: Y577D1000-19x18x70-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®
 - Y577D1000-19x18x70-MMF
 - 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 picture 1)
- Laser Marking on module housing (see picture 2)

Picture 1



Picture 2



Picture 3

