

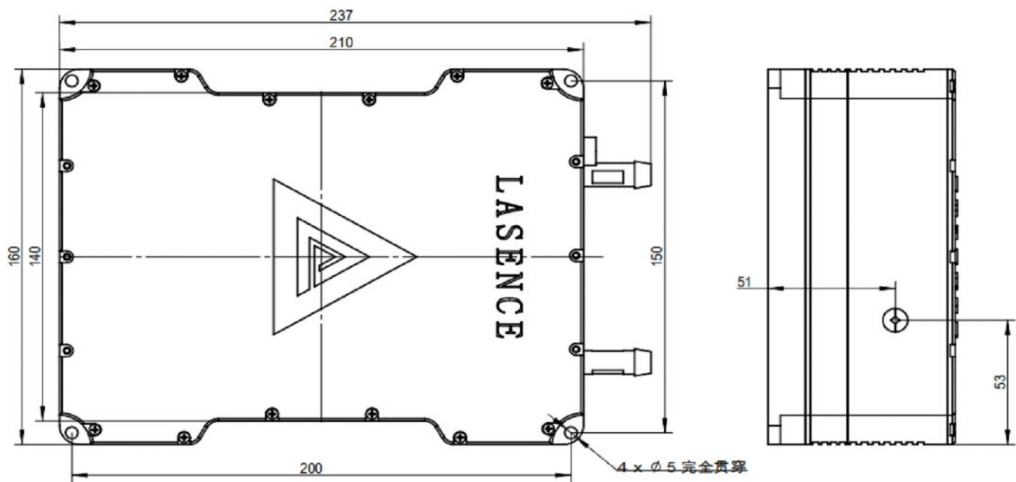


G510D5000-237x160x71-30

Applications

- Laser Medical Treatment
- Scientific Experiment
- Optical Instrument
- Laser Display

Dimensions (Unit: mm)



Specifications				
Model Number		G510D5000-237x160x71-30		
Mechanical Specifications		Min	Typ	Max
Laser Head	Width x Height (mm)	-	160x71	-
	Length (mm)	-	237	-
	Weight (g)	-	-	2000
Housing Material		Aluminum passivation		
Optical Specifications		Min	Typ	Max
Wavelength (nm)		505	510	513
Output Power (mW)		5000	-	-
Power Stability at const. Temperature ⁽¹⁾		-	+/- 1%	+/- 3%
Output Power Mode		CW		
Laser Class		3B		

⁽¹⁾ after max. 3 minutes

Beam Specifications	Min	Typ	Max
Beam Divergence (mrad) ⁽¹⁾	-	30	40
Beam Waist (μm)	-	250	-
Beam Diameter at Output Window (mm)	-	1	
Beam Mode Longitude	Multi		
Beam Mode Transverse	TEM _{n0}		
Polarization Ratio (Linear)	100:1	-	-
Residual IR	-	-	3%
Electrical Specifications	Min	Typ	Max
Power Type	ACC		
LD Voltage (DC, V)	14	14.5	15
LD Operating Current (A)	-	8	10
Power Consumption (W)	-	116	150
Housing Isolation	No		
ESD protection	No		
Reliability	Min	Typ	Max
Water Conditions-Temperature Range (°C) ⁽²⁾	15	-	25
Water Conditions-Pressure (bar)	1	-	3
Rise 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⁾ One point temperature between 15 to 25°C

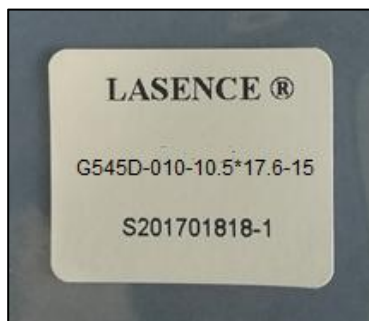
Remarks

- Product ID for placing orders: G510D5000-237x160x71-30
- Datasheet Version: 1
- No Photodiode
- Customer is responsible for suitable water-cooled machine
- Label on plastic bag (see picture of another product's label in picture 2):
 - LASENCE®
 - G510D5000-237x160x71-30
 - Lasence Order Number - Module Number
- Anti-static protector for transportation (see picture 4)
- Laser Beam Warning Label on module housing (see picture 1)
- Laser Wavelength (see picture 3):
 - Lasence Material Code
 - Lasence Order Number - Module Number

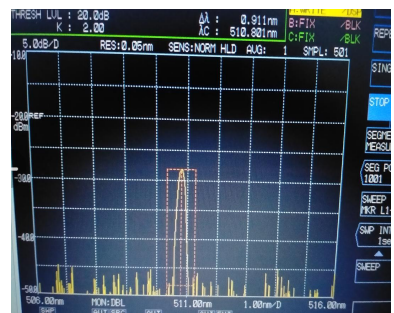
Picture 1



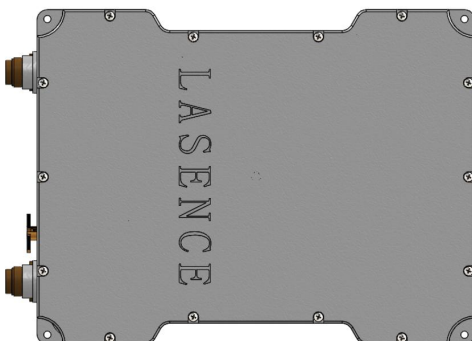
Picture 2



Picture 3



Picture 4



Typical Output Performance (examples)

1.) Power vs. Time

