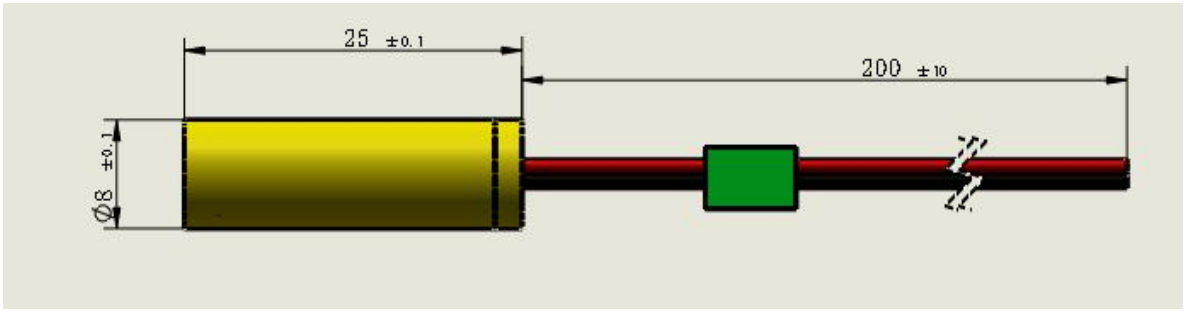


Y561D006-8x25-1-(10-50)-10

- Features**
- Fast Rise Time
 - High Reliability

Dimensions (Unit: mm)



Specifications				
Model Number		Y561D006-8x25-1-(10-50)-10		
Mechanical Specifications		<i>Min</i>	<i>Typ</i>	<i>Max</i>
Laser Head	Diameter (mm)	-	8	8.1
	Length (mm)	-	25	25.1
	Weight (g)	-	-	35
Housing Material		Brass		
Optical Specifications		<i>Min</i>	<i>Typ</i>	<i>Max</i>
Wavelength (nm)		557	560	563
Output Power (mW) ⁽¹⁾		2	4	9
Power Stability at const. Temperature ⁽²⁾		-	+/- 5%	+/- 10%
Output Power Mode		PWM		
Laser Class		3B		

⁽¹⁾ over Temperature Range of 10 to 50 °C

⁽²⁾ after max. 3 minutes

Beam Specifications		Min	Typ	Max
Beam Divergence (mrad) ⁽¹⁾		-	1	1.5
Beam Alignment Tolerance	Position (Δr , mm) ⁽²⁾	-	0.3	0.5
	Off-axis Angle (mrad) ⁽³⁾	-	8	15
Beam Diameter at Output Window (mm)		-	-	5
Beam Diameter at distance 7m (mm)			7	11
Beam Roundness		70%	-	100%
Beam Mode Longitude		Multi		
Beam Mode Transverse		TEM ₀₀		
Polarization Ratio		-	NA	-
Residual IR (%)		-	-	1%
Electrical Specifications		Min	Typ	Max
PCB Type		PWM / 50% duty cycle ⁽⁷⁾		
Voltage (DC, V)		2.5	2.8	3.0
Operating Current (mA) at 3V ⁽⁴⁾		-	220	500
Housing Isolation		No		
Modulation Voltage(DC V)		2.5	2.8	3.0
Modulation Frequency(kHz)		0.11		
ESD protection		No		
Wire Length (mm)		200 +/- 10		
Wire Type		UL 10064 26AWG ⁽⁵⁾		
Connector Model		None ⁽⁵⁾		
Reverse Voltage Protection		No		
Reliability		Min	Typ	Max
Operating Case Temperature Range (°C)		10	25	50
Rise Time (Seconds) ⁽⁶⁾		-	0.2	0.5
Storage Temperature (°C)		-20	-	60
Environmental Humidity (RH, %)		5	-	85
Lifetime (hours) (MTTF at 25°C)		5,000	-	-
RoHS Compliance Declaration		Yes		

(1) Full Angle (1/e²)

(2) at Output Window

(3) Full Angle

(4) over Operating Case Temperature

(5) Optional: Alternative Wire Types & Connector Models on demand

(6) to 75% of full Output Power

(7) The duty cycle is fixed for each module and cannot be adjusted.

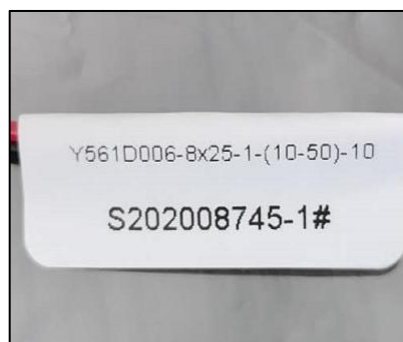
Remarks

- Datasheet Version 1
- Customer is responsible for suitable heat sinking
- Label on plastic bag (see picture 3):
 - LASENCE®
 - Y561D006-8x25-1-(10-50)-10
 - Lasence Order Number - Module Number
 - Label Length: 30mm (+/-3mm); Width: 25mm (+/-3mm)
- **Optional:**
- Shock
 - 1000g, 1ms, 6 shocks (3 axes, 2 shocks/axis)
- Vibration
 - 20 ~ 200Hz, 0.02g²/Hz (3 axes, 1h/axis)
- Laser Beam Warning Label on module housing (see picture 1)
- Label around wires (see picture 2):
 - Y561D006-8x25-1-(10-50)-10
 - Lasence Order Number - Module Number
 - Label length: 30mm (+/-3mm)

Picture 1



Picture 2



Picture 3

