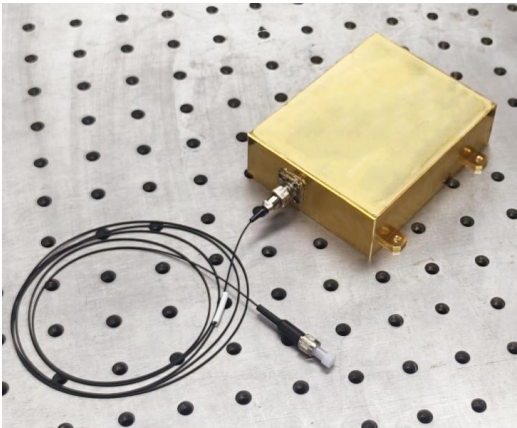


Yellow 577nm Laser

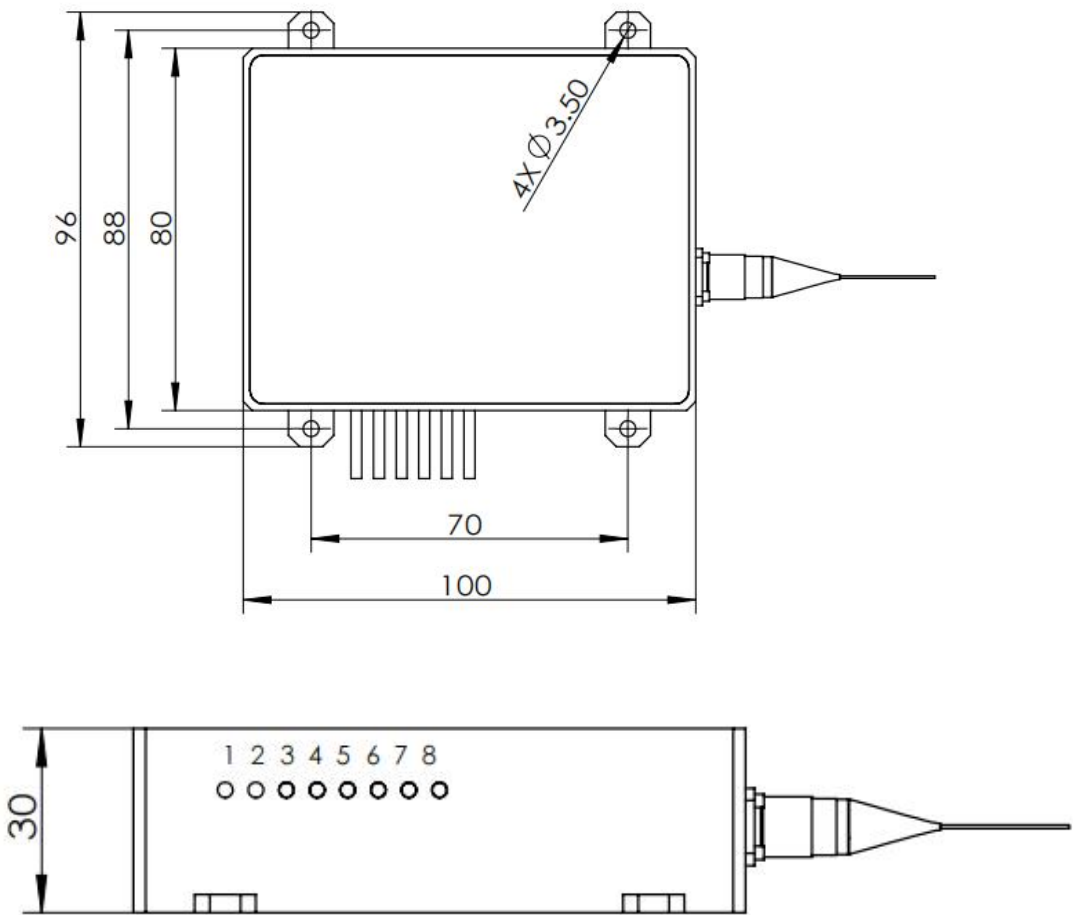


Y577D1000-100x96x30-50FC

Features

- DPSS Laser
- 50μm fiber coupled
- High Stability
- Yellow Laser

Dimensions (Unit: mm)



- 1: NC 2: NC 3: Laser + 4: Laser -
5: NTC 6: NTC 7: Aiming beam + 8: Aiming beam -

Specifications				
Model Number		Y577D1000-100x96x30-50FC		
Mechanical Specifications		Min	Typ	Max
Laser Head	Width x Height (mm)	-	96x30	-
	Length (mm)	-	-	100
	Weight (g)	-	-	1500
Housing Material		Aluminum		
Optical Specifications		Min	Typ	Max
Wavelength (nm)		574	577	580
Continuous Output Power (mW)		1000	1,500	-
Power Stability ⁽¹⁾		-	1%	3%
Output Power Mode		CW		
Laser Class		4		
Indicating Optical Power (mW)		1	-	5
Indicating Optical Wavelength (nm)		630	-	660
Fiber Specifications		Min	Typ	Max
Fiber ⁽²⁾	Core Diameter(μm)	-	50	-
	NA	-	0.22	-
	Length(m)	-	1.5	-
	Connector to laser	FC/PC		
	Connector	SMA905		
Electrical Specifications		Min	Typ	Max
Power Type		ACC		
577 LD Voltage (DC, V)		1.8	2	2.5
577 LD Operating Current (A) at 2V			13	15
Red LD Voltage (DC, V)		1.8	2	2.5
Red LD Operating Current (mA) at 2V			100	200
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)			26	37.5
Housing Isolation		No		
ESD protection		No		

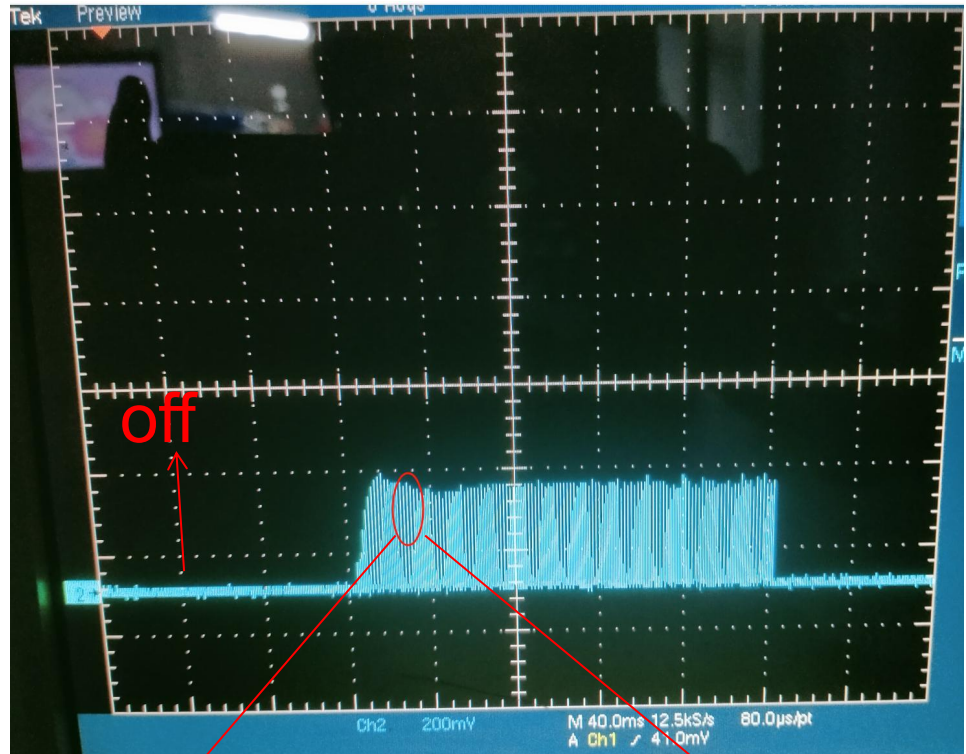
Reliability	Min	Typ	Max
Operating Case Temperature Range (°C) ⁽³⁾	T-1	T	T+1
Warm-up Time (mins)	-	3	5
Storage Temperature (°C)	0	-	40
Environmental Humidity (RH, %)	5	-	85
Lifetime (hours) (MTTF at 25°C)	10,000	-	-
RoHS Compliance Declaration	Yes		
Remarks			
• Product ID for placing orders: Y577D1000-100x90x30-50FC • Datasheet Version: 1 • No PCB & No Power Supply • No Water Chiller, customer is responsible for preparing • No Photodiode • Example of beam spot (see picture2) • Examples of laser output in pulsed mode (see picture 1)			

(1) after warm-up time at operating case temperature (RMS 8 hours)

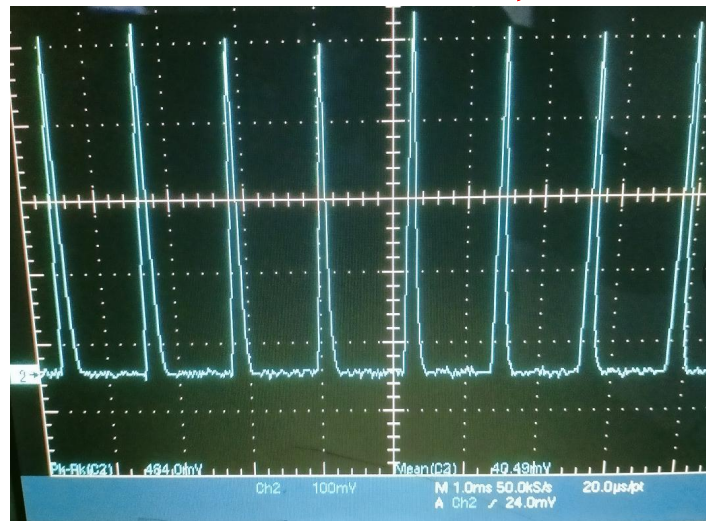
(2) fiber is removable. The fiber end to the laser is FC/PC connector and the other end is SAM905 connector.

(3) T is one optimum LD operating temperature between 15 to 35°C reflected by NTC resistance and will be advised in each test report

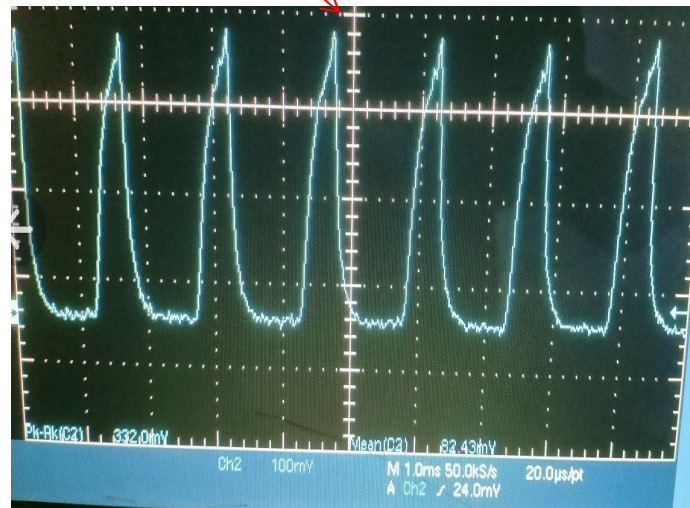
Picture 1



Pulse-Width: 200ms
Pulse interval: 1s



Micro-pulse:
Pulse-Width: 150us
Pulse interval: 1ms



Micro-pulse:
Pulse-Width: 500us
Pulse interval: 1ms

Tested By Oscilloscope+Photoelectric Probe

Picture 2

