

Conduction Cooled Vertical Stack Diode Laser

Vsilk1200



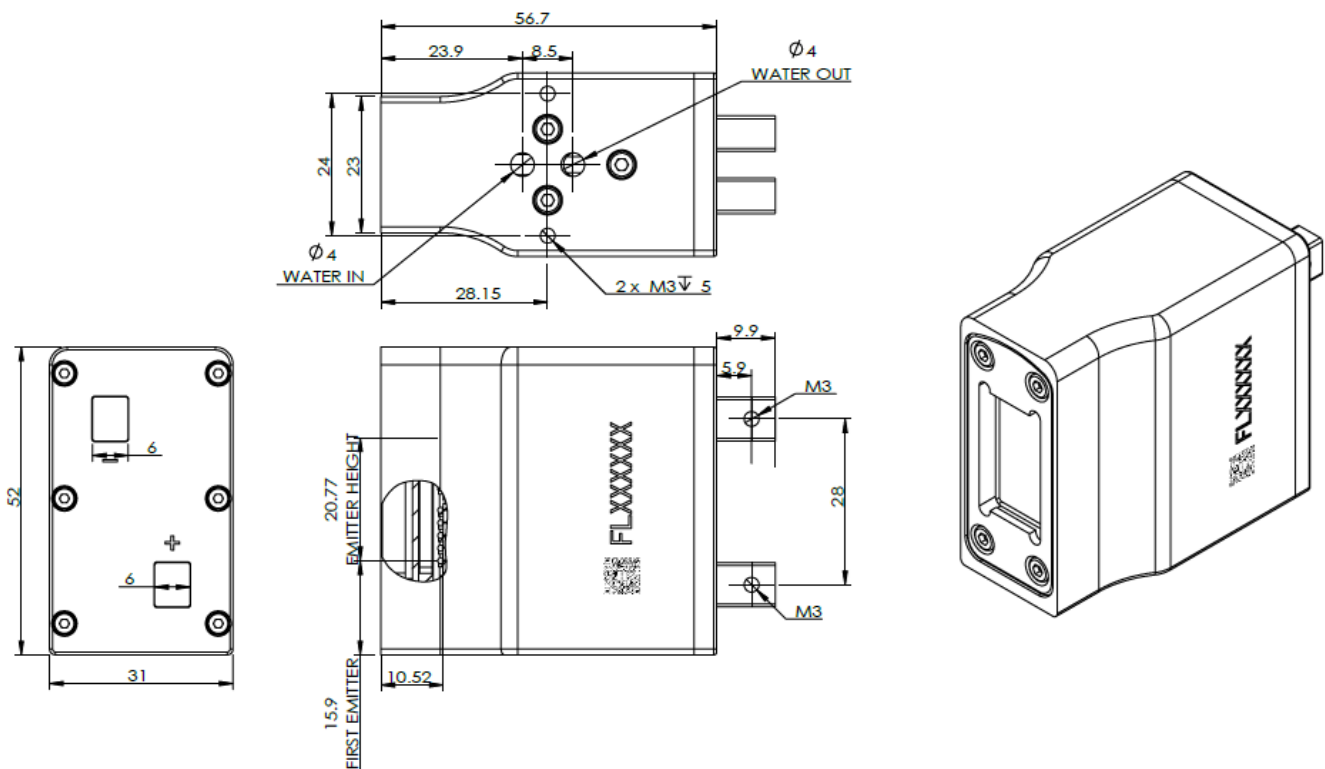
Features

- AuSn bonding
- Module design
- High power
- Long life
- High reliability

Applications

- Hair removal

Product Dimensions (mm)



Remark: The structure drawing is for reference only. Please feel free to contact us for any special requirements.

Product Specifications

Product Code

HAR0000010

Part No. ¹

FL-Vsilk-1200-808

Optical Data ²	Unit	Value
Centroid Wavelength	nm	808
Wavelength Tolerance	nm	± 15
Output Power per ³	W	120@10ms
Number of bars	-	10
Wavelength Temp. Coefficient	nm/°C	~ 0.28

Electrical Data ²

Operation Current	A	≤ 110
Threshold Current	A	≤ 25
Operating Voltage	V	≤ 2
Slope Efficiency	W/A	≥ 1.1
Power Conversion Efficiency	%	≥ 48
Max. Pulse Width	ms	100
Max. Duty Cycle	%	20%@1000W

Miscellaneous Data ²

Operating Temperature ⁴	°C	22 ~ 28
Coolant	-	Distilled water or pure water
Flow Rate	L/min	2 ~ 4
Max Inlet Pressure	kPa	380

¹Part No. = Brand Code - Series - Power- Centroid Wavelength.

²Data at 25°C unless otherwise stated.

³Reduced lifetime if used above nominal operating conditions.

⁴A non-condensing environment is required for storage and operation below ambient dew level.



Recommended Operation Condition

FL-Vsilk-1200-808 Power Table													
Power (W)		Frequency (Hz)										Iop	
		1	2	3	4	5	6	7	8	9	10		
Pulse (ms)	10	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	~110A
	20	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	~95A
	30	1000	1000	1000	1000	NA	NA	NA	NA	NA	NA	NA	~70A
	40	1000	1000	1000	NA	NA	NA	NA	NA	NA	NA	NA	
	50	1000	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	Cooling water: T =25±3°C; Flow Rate 3~4L/min
	60	1000	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	100	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	