

## Conduction Cooled Vertical Stack Diode Laser

### Vsilk1800



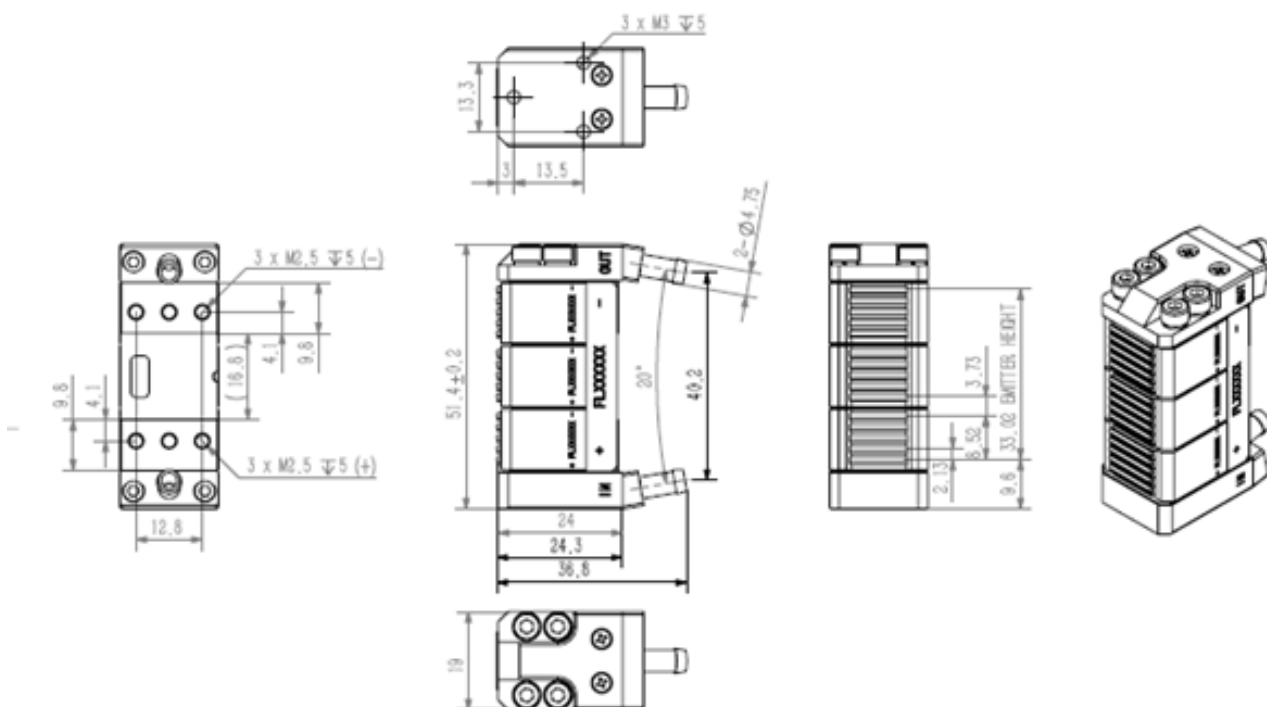
#### Features

- 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** **HAR000005**  
Part No. <sup>1</sup> FL-AA10-5×3-1800-808-Y

Optical Data <sup>2</sup>	Unit	Value
Centroid Wavelength	nm	808
Wavelength Tolerance	nm	± 15
Output Power per bar <sup>3</sup>	W	120@10ms
Fast Axis Divergence	degree	10
Slow Axis Divergence	degree	12
Polarization Mode	-	TE
Wavelength Temp. Coefficient	nm/°C	~ 0.28

Electrical Data <sup>2</sup>		
Operation Current	A	≤ 100
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 <sup>2</sup>		
Operating Temperature <sup>4</sup>	°C	22 ~ 28
Coolant	-	Distilled water or pure water
Flow Rate	L/min	2 ~ 4
Max Inlet Pressure	kPa	380

**Product Code** **HAR000004**  
Part No. <sup>1</sup> FL-AA10-5×3-1800-808

Optical Data <sup>2</sup>	Unit	Value
Fast Axis Collimation		Not applicable

All other specifications same as above.

<sup>1</sup> Part No. = Brand Code - Series - Num. of bars- Power - Centroid Wavelength - Y (with FAC).

<sup>2</sup> Data at 25°C unless otherwise stated.

<sup>3</sup> Reduced lifetime if used above nominal operating conditions.

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



## Recommended Operation Condition

FL-AA10-5X3-1500-808-Y Power Table													
Power(W)		Frequency(Hz)										Iop	
		1	2	3	4	5	6	7	8	9	10		
Pulse(ms)	10	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	~95A
	20	1500	1500	1500	1500	1500	1500	NA	NA	NA	NA	~70A	
	30	1500	1500	1500	NA	NA	NA	NA	NA	NA	NA		
	40	1500	1500	NA	NA	NA	NA	NA	NA	NA	NA		
	50	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	Cooling water: T =25±3°C; Flow Rate 2~4L/min	
	60	900	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	70	900	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	80	900	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	90	900	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	100	900	NA	NA	NA	NA	NA	NA	NA	NA	NA		