

Conduction Cooled Vertical Stack Diode Laser

Vsilk 2-1800



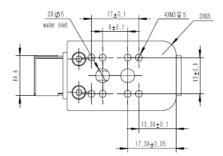
Features

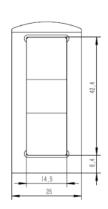
- High effective energy
- · High beam quality
- High reliability

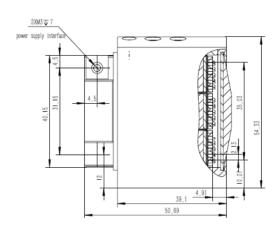
Applications

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
 HAR300089

 Part No. 1
 FL-Vsilk2-1800-808

Part No.		FL-VSIIKZ-1000-000
Optical Data ²	Unit	Value
Centroid Wavelength	nm	808
Wavelength Tolerance	nm	± 15
Output Power ³	W	1800
Number of bars	-	15
Bar to Bar Pitch	mm	2.1
Fast Axis Divergence 95%	٥	5 ~ 7
Slow Axis Divergence 95%	٥	12 ~ 14
Spot Size ⁴	mm	12 × 36
Wavelength Temp. Coefficient	nm/°C	~ 0.28
Electrical Data ²		
Operation Current	А	≤ 125
Threshold Current	А	≤ 25
Operating Voltage	V	≤ 30
Slope Efficiency per bar	W/A	≥ 1.1
Power Conversion Efficiency	%	≥ 48
Max. Pulse Width	ms	400
Max. Duty Cycle	%	30
Miscellaneous Data		
Operating Temperature ⁵	°C	22 ~ 28
Coolant	-	Distilled water or pure water
Flow Rate	L/min	3 ~ 4

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



² Data at 25°C unless otherwise stated.

³ Reduced lifetime if used above nominal operating conditions.

⁴ At the distance of 32mm from light emitting surface.

⁵ A non-condensing environment is required for storage and operation below ambient dew level.



Recommended Operation Condition

Vsilk 2-1800 Energy Table												
Energy(J)		Frequency(Hz)								lop		
		1	2	3	4	5	6	7	8	9	10	~120A
	10	18	18	18	18	18	18	18	18	18	18	~105A
	20	36	36	36	36	36	36	36	36	36	36	~70A
	30	54	54	54	54	54	54	54	54	54	54	
	40	72	72	72	72	72	72	72				Water Tempera- ture T=25±3°C Flow Rate: 3~4L/min
	50	86	86	86	86	86	86					
Pulse	60	90	90	90	90	90						
Width	70	105	105	105	105							
(ms)	80	120	120	120								
	90	135	135									
	100	150										
	200	150										3 42/111111
	300	225										
	400	300										