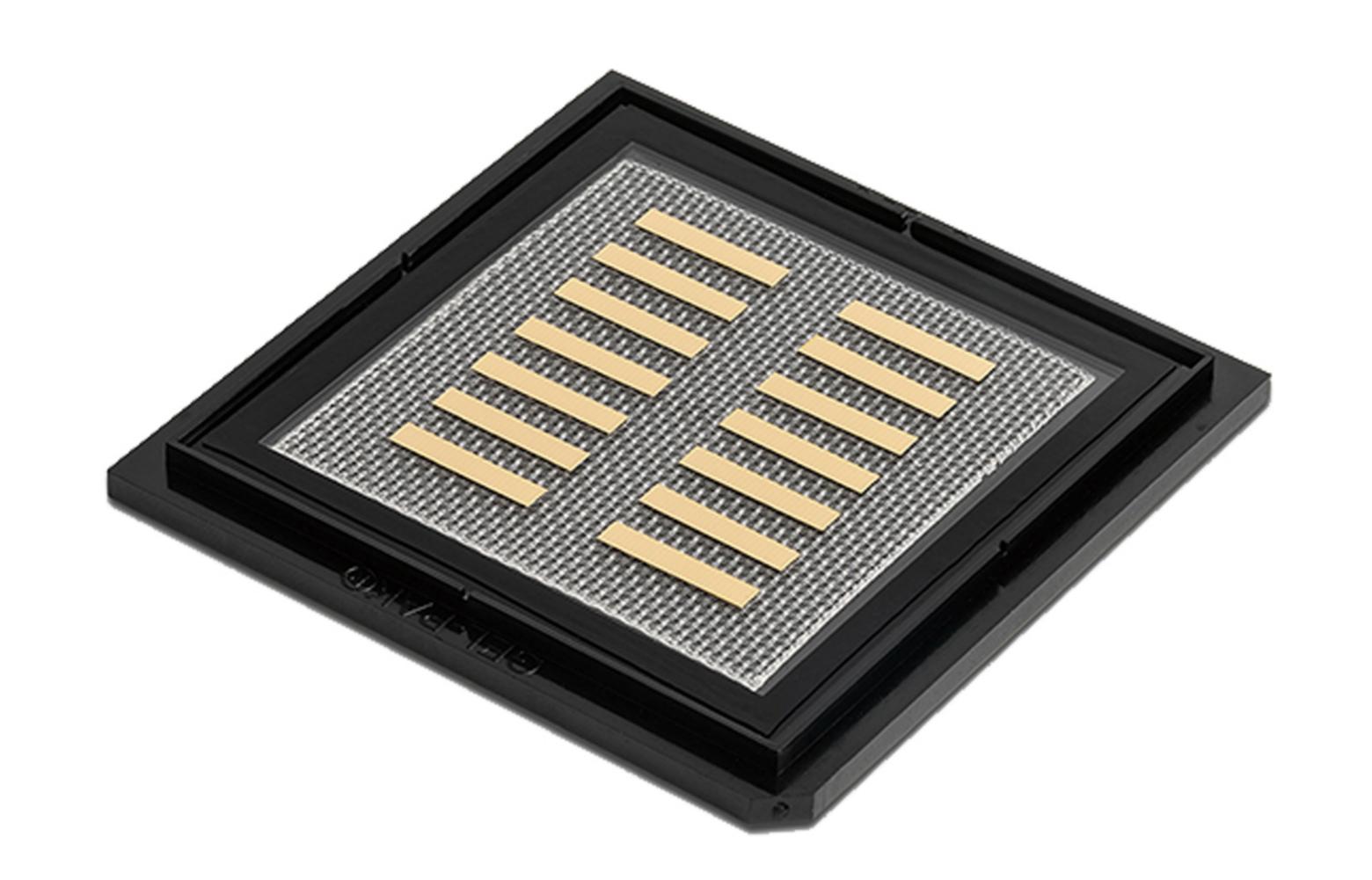


## Laser Chip BB



## Application

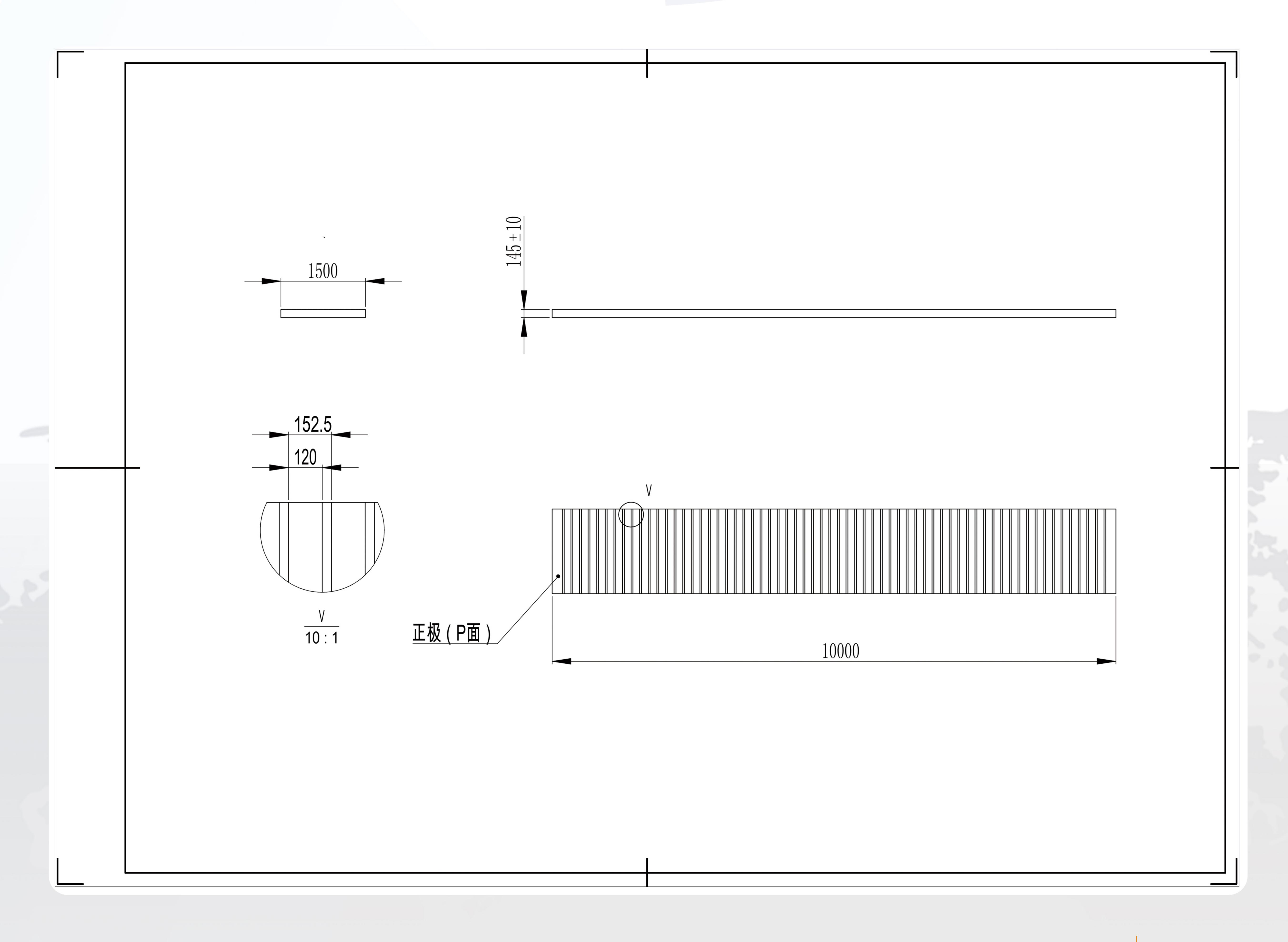
Industry Pump R&D

Biomedical Laser Equipment

## Features

High Power High Efficiency

High Reliability





Bare Bar BB		Item Number¹ EB-BB-###-###-###		
Parameter	Unit	500Q 808	200 940	700 940
Optical <sup>2</sup>				
Center Wavelength	nm	808	940	940
Wavelength Tolerance	nm		<u>+</u> 3	
Output Power <sup>5</sup>	W	≥500	≥200	≥700
Fast-axis Divergence <sup>4</sup>	Deg	65	55	55
Slow-axis Divergence	Deg		8.5	
Spectral Width (FWHM)	nm	≤3.5	3	5
Polarization Mode	TM/TE		TE	
Wavelength Temperature Coefficient	nm/℃	0.28	0.3	0.3
Electrical <sup>2</sup>				
Power Conversion Efficiency	%	≥58	64	63
Slope Efficiency	W/A	1.2	1.1	1.15
Threshold Current	A	28	25	25
Operating Current	A	≤430	≤220	650
Operating Voltage	V	2	1.5	1.7
Pulse Width	us	200	200	500
Pulse frequency	Hz	400	400	160.0
Pulse duty cycle	%		8	
Geometric Size				
Number of Emitters	#	34	24	34.0
Emitter Width	μm	232.0	200	232
Emitter Pitch	μm	290	400	290.0
Fill Factor	%	80.0	50	80
Cavity Length	mm	1.5	3	2.0
Bar Thickness	μm		115.0	
Bar Length	mm	10.25		
Thermal				
Operating Temperature <sup>3</sup>	$^{\circ}\! \mathbb{C}$	25	20	25
Storage Temperature <sup>3</sup>	$^{\circ}\! \mathbb{C}$		-20~80	
Flow Velocity	L/min	0.2	0.25	0.25
Notes				

- Notes
- 1. Explanation of Item Number: EB (Everbright In Short) BB (Bare Bar) ### (Output Power is ###W) -### (Emtter number is ###) #### (Center Wavelength is ###nm) ## (Wavelength Tolerance is ±##nm)
- 2. Above Data Test at 25℃, Unless otherwise stated.
- 3. Please avoid operation and storage in the condensation enviroment. If exceed operating temperature, the device lifetime will be inpacted.
- 4. For fast-axis collimation, divergence ≤0.5°
- 5. Lifetime reduced if exceed nominal output power.

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