

EB-BB-050-0808-10

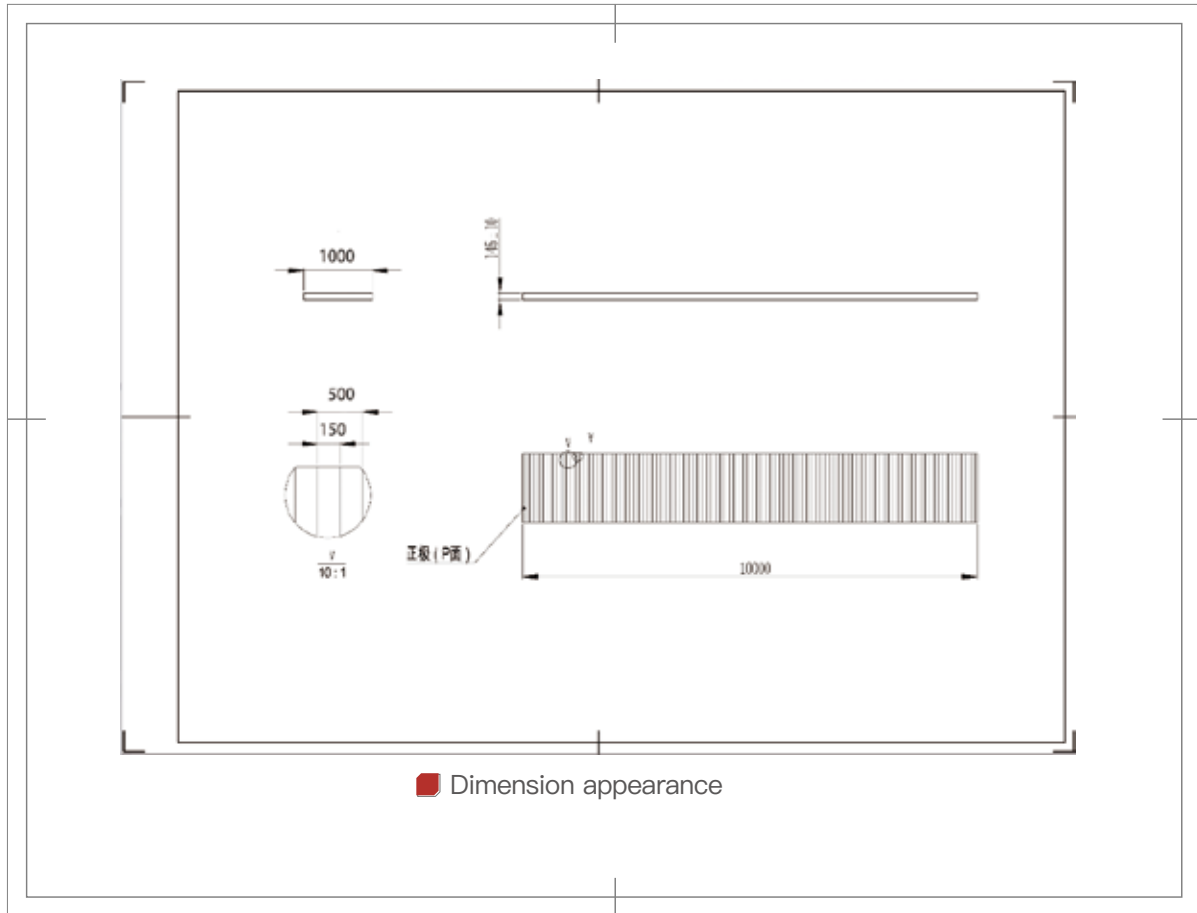
HIGH POWER DIODE BAR LASER CHIP



	Unit	Min	Typ	Max
Optical				
Center Wavelength	nm		808	
Wavelength Tolerance	nm		±10	
Output Power	W	50		
Fast-axis Divergence	Deg		65	75
Slow-axis Divergence	Deg		10	
Spectral Width (FWHM)	nm		2.5	3.5
Polarization	TM/TE		TE	
Wavelength Temperature Coefficient	nm/°C		0.28	
Electrical				
Power Conversion Efficiency	%		55	
Slope Efficiency	W/A		1.25	
Threshold Current	A		8	
Operating Current	A		50	52
Operating Voltage	V		1.8	
Pulse Width	us		-	
Pulse frequency	Hz		-	
Pulse duty cycle	%		-	
Geometric Size				
Number of Emitters	#		19	
Emitter Width	μm		150	
Emitter Pitch	μm		500	
Fill Factor	%		30	
Cavity Length	mm		1	
Bar Thickness	μm	135	145	155
Bar Length	mm	9.98	10	10.02
Thermal				
Operating Temperature	°C		25	
Storage Temperature	°C		-40~80	
Flow Velocity	L/min		0.25	

Remarks

- 1.Explanation of Item Number: EB (Everbright In Short) – BB (Bare Bar)–50 (Output Power) – 0808 (Center Wavelength)– 10 (Wavelength Tolerance)
- 2.Above Data Test at 25°C, Unless otherwise stated.
- 3.Please avoid operation and storage in the condensation enviroment. If exceed operating temperature, the device lifetime will be inpacted.
4. Lifetime reduced if exceed nominal output power.



Product Features



High Reliability



High Efficiency



High Power

Application



Industrial Pump



Laser Equipment



R&D



Biomedical



SUZHOU EVERBRIGHT PHOTONICS CO., LTD

No.56,Lijiang Road,SND,Suzhou,Jiangsu Province,China

www.everbrightphotonics.com Sales@everbrightphotonics.com +86-512-66896988

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