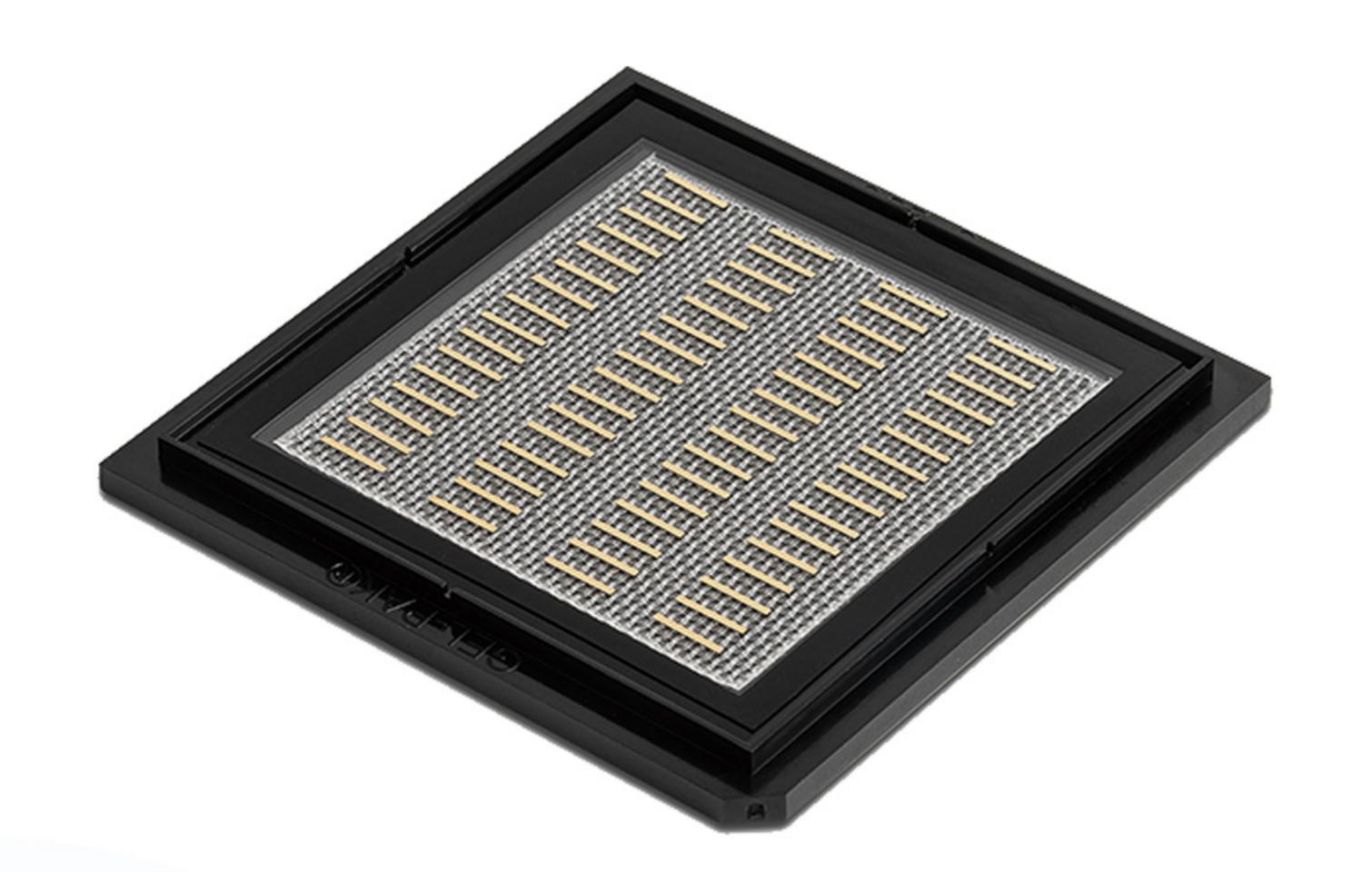


Laser Chip BC



Application

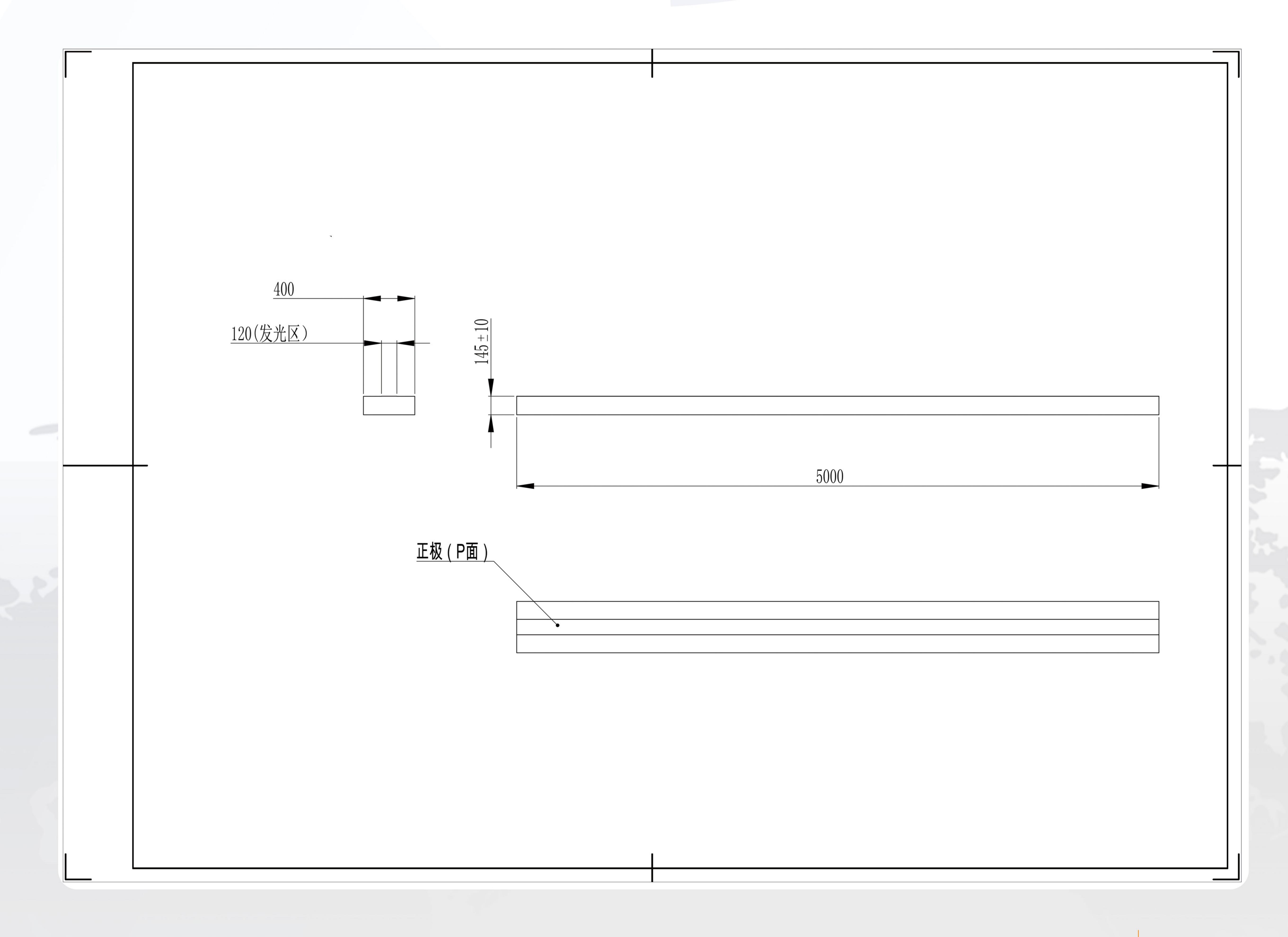
Industry Pump R&D

Biomedical Laser Equipment

Features

High Power High Efficiency

High Reliability





Bare Chip BC		Item Number ¹ EB-BC-013-120-0976-03		
Parameter	Unit	Min	Type	Max
Optical ²				
Center Wavelength	nm	973	976	979
Wavelength Tolerance	nm		<u>+</u> 3	
Output Power ⁴	W		13	
Cacity	mm		5	
Chip Width	μm		400	
Spectral Width (FWHM)	nm		3.5	4.5
Fast-axis Divergence	Deg		29	34
Slow-axis Divergence	Deg		6.5	9
Wavelength Temperature Coefficient	nm/°C		0.28	
Emitter Width	μm		122	
Thickness	μm		145	
${f Electrical}^2$				
Power Conversion Efficiency	%	55	60	
Slope Efficiency	W/A	0.95	1.0	
Threshold Current	A		0.8	1.05
Operating Current	A		14	15
Operating Voltage	V		1.5	1.7
Series Resistance	${ m m}\Omega$		10	
Thermal				
Operating Temperature ³	$^{\circ}$ C	15	25	35
Storage Temperature ³	$^{\circ}$ C		0~55	
Others				
Working Mode			CW	
Polarization	%	90	97	

Notes

- 1. Explanation of Item Number: EB (Everbright In Short) BC (Bare Chip) 013 (Output Power is 13W) -120 (Emtter Width is 120μm) 0976 (Center Wavelength is 976nm) 03 (Wavelength Tolerance is ±3nm)
- 2. Above Data Test at 25℃, Unless otherwise stated.
- 3. Please avoid operation and storage in the condensation environment. If exceed operating temperature, the device lifetime will be inpacted.
- 4. Lifetime reduced if exceed nominal output power.

Version: XP03-1807B-R01





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