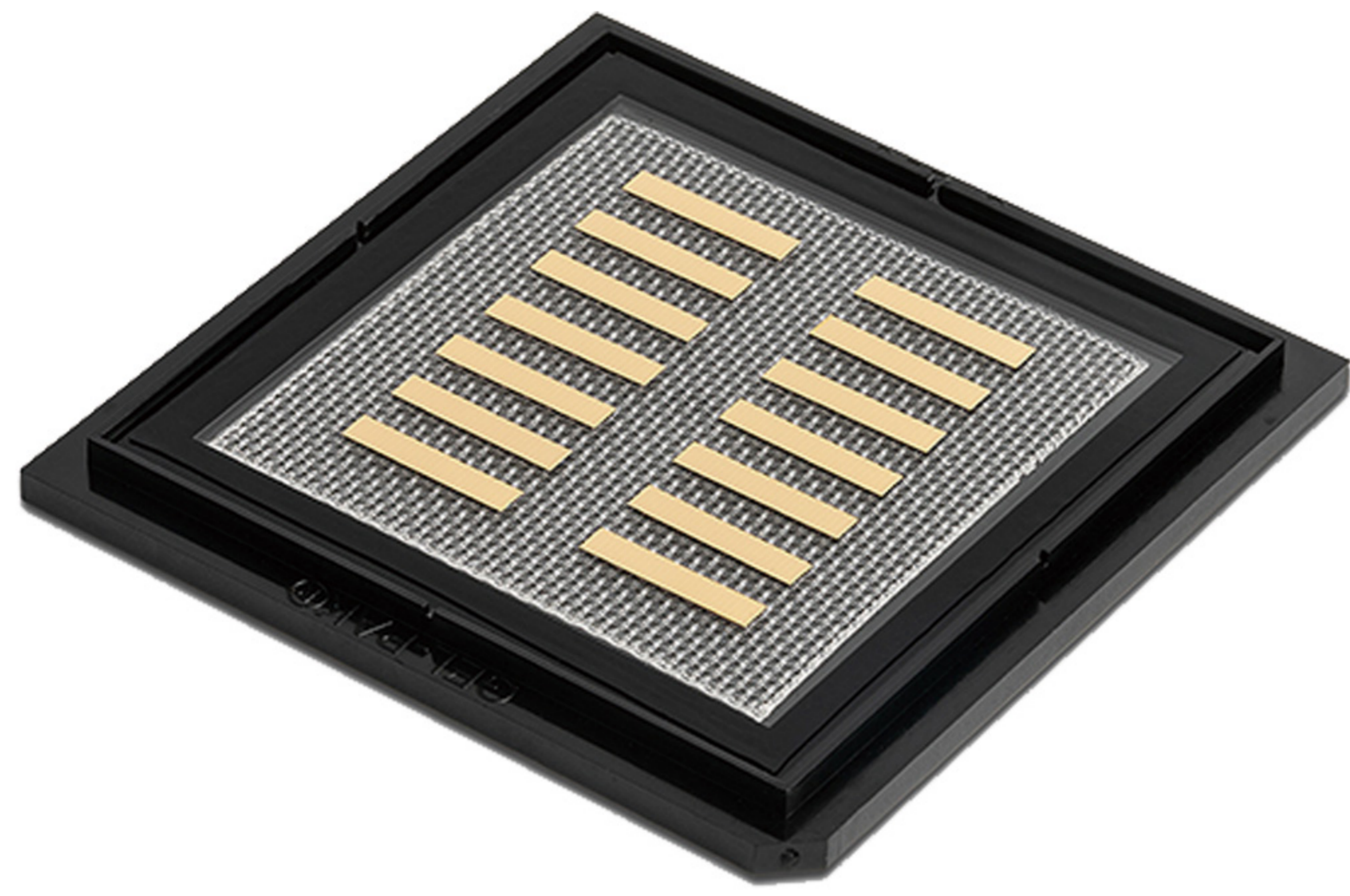


Laser Chip BB

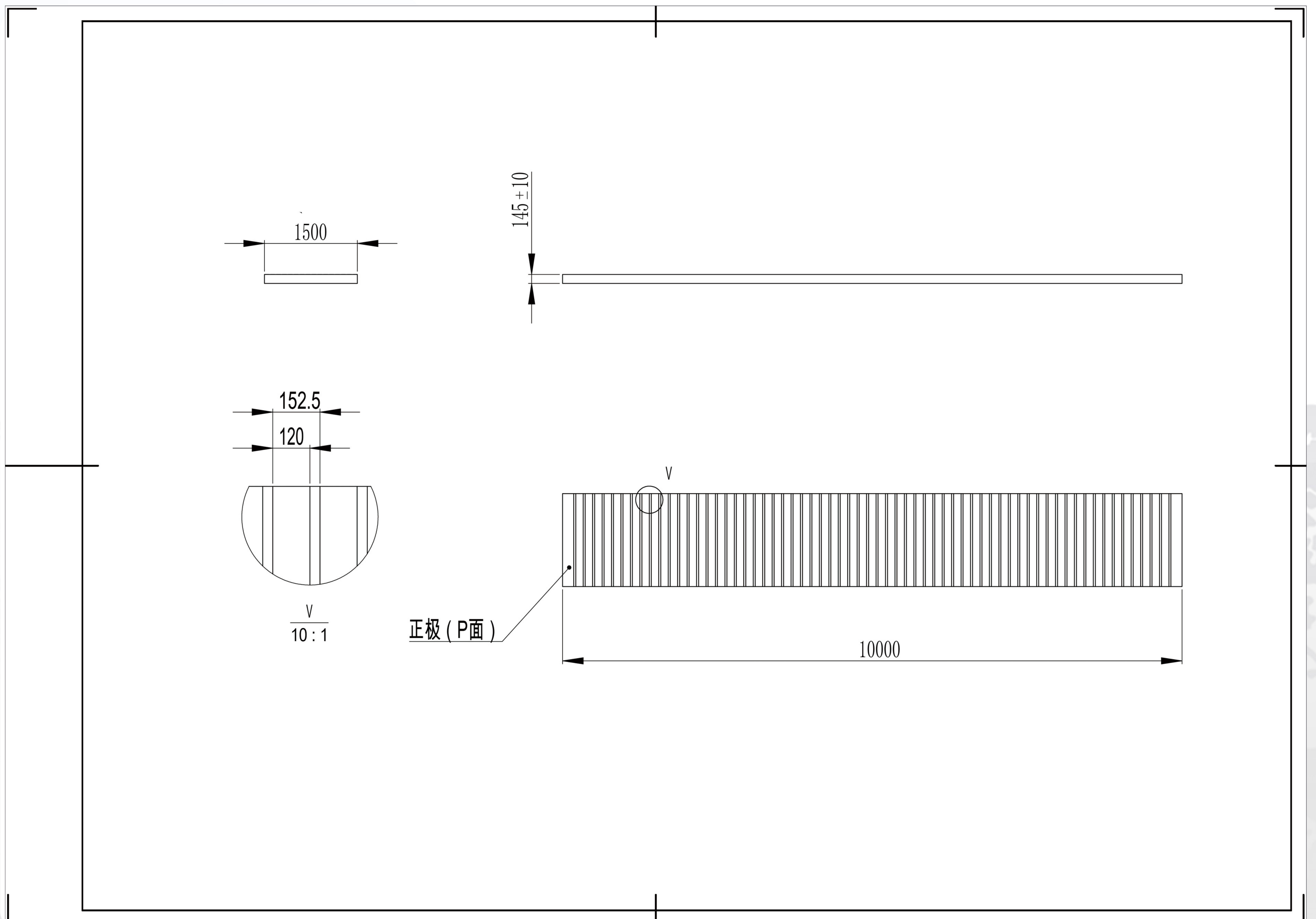


Application

Industry Pump R&D
Biomedical Laser Equipment

Features

High Power High Efficiency
High Reliability



| Bare Bar BB | | Item Number ¹ EB-BB-100-063-0808-03 | | |
|---|-------|--|------|-----|
| Parameter | Unit | Min | Type | Max |
| Optical² | | | | |
| Center Wavelength | nm | 805 | 808 | 811 |
| Wavelength Tolerance | nm | | ±3 | |
| Output Power ⁵ | W | | 100 | |
| Working Mode | - | | CW | |
| Cavity Length | mm | | 1.5 | |
| Spectral Width (FWHM) | nm | | 3 | 5 |
| Fast-axis Divergence ⁴ | Deg | | 35 | 40 |
| Slow-axis Divergence | Deg | | 8 | 10 |
| Wavelength Temperature Coefficient | nm/°C | | 0.28 | |
| Emitter# | # | | 63 | |
| Emitter Width | μm | | 120 | |
| Emitter Pitch | μm | | 150 | |
| Bar Length | mm | | 10 | |
| Bar Thickness | μm | 130 | 140 | 150 |
| Electrical² | | | | |
| Power Conversion Efficiency | % | 47 | 52 | |
| Slope Efficiency | W/A | 1.15 | 1.2 | |
| Threshold Current | A | | 27 | 30 |
| Operating Current | A | | 105 | 110 |
| Operating Voltage | V | | 1.8 | 1.9 |
| Thermal | | | | |
| Operating Temperature ³ | °C | 15 | 25 | 35 |
| Storage Temperature ³ | °C | | 5~55 | |
| Others | | | | |
| Fill Factor | % | | 80 | |
| Polarization | % | | 95 | |
| Notes | | | | |
| 1. Explanation of Item Number: EB (Everbright In Short) - BB (Bare Bar) - 100 (Output Power is 100W) -063 (Emtter number is 63) - 0808 (Center Wavelength is 808nm) - 03 (Wavelength Tolerance is ±3nm) | | | | |
| 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. For fast-axis collimation, divergence ≤0.5° | | | | |
| 5. Lifetime reduced if exceed nominal output power. | | | | |
| Version: XP05-1807B-R01 | | | | |



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