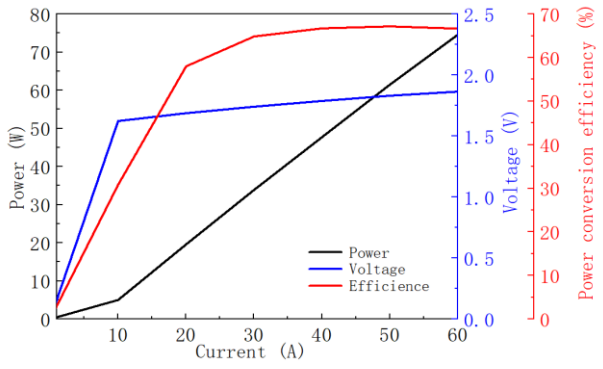
# High Power Diode Lasers Bars, 808 nm, 50W CW
# 808nm 50W 高功率巴条激光芯片
# DG-UMB-30-19-808-TE-50-1.0

| 性能参数 Performance Parameters | 符号 Symbol | 最小值 Minimum | 典型值 Typical | 最大值 Maximum | 单位 Unit |
|---|---|---|---|---|---|
| **Operation** | | | | | |
| 输出功率 Optical output power | Po | | 50 | | W |
| 中心波长 Wavelength (cw) | λc | 798 | 808 | 818 | nm |
| 工作模式 Operation mode | | | CW | | |
| **Geometrical** | | | | | |
| 发光单元数 Number of Emitters | | | 19 | | |
| 发光区宽度 Emission region width | E.W. | 145 | 150 | 155 | μm |
| 发光点周期 Emitter Pitch | P | | 500 | | μm |
| 填充因子 Filling Factor | F | | 30 | | % |
| 巴条长度 Bar Width | B | 9800 | 10000 | 10200 | μm |
| 腔长 Cavity length | L | 980 | 1000 | 1020 | μm |
| 厚度 Thickness | D | 105 | 115 | 125 | μm |
| **Electro Optical Data** | | | | | |
| 电光转换效率 Electro-optic conversion efficiency | ηc | 62 | 65 | | % |
| 斜率效率 Slope efficiency | SE | 1.2 | 1.3 | | W/A |
| 阈值电流 Threshold current | Ith | | 6 | 7 | A |
| 工作电流 Operating current | Iop | | 50 | 52 | A |
| 工作电压 Operating voltage | Vop | | 1.9 | 2.0 | V |
| 光谱宽度（FWHM） Spectral width | Δλ | | 2 | 3 | nm |
| 波长温度系数 Wavelength tuning vs. temperature | Δλ/ΔT | | 0.3 | | nm/℃ |
| 垂直远场发散角（FWHM） Vertical F.F. divergence angle | θ⊥ | | 35 | | Deg |
| 水平远场发散角（FWHM） Horizontal F.F. divergence angle | θ// | | 6 | | Deg |

备注：本参数为产品进行MCC封装，CW电流模式，导热板25℃下条件下的测试参数。
Note: These parameters were obtained by testing MCC packaged products in the CW mode at 25℃.

### Power-Current-Voltage-Efficiency




### Spectral characteristics