

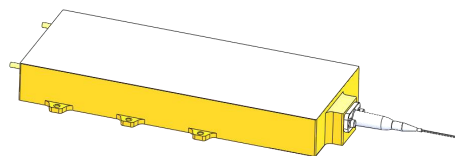
# PN:WS976500220-M

## 应用领域Applications:

- 光纤激光器泵浦 Fiber laser pumping
- 锁波 Wavelength locked

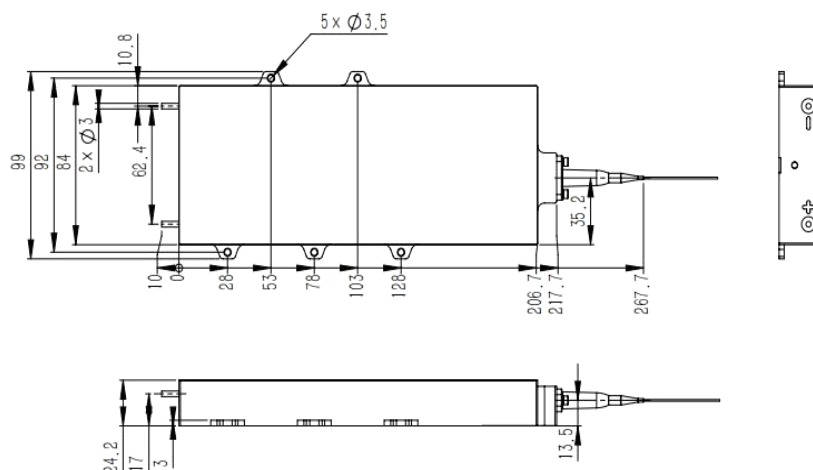
## 版本变更说明:

- Rev D1: Draft---250220
- Rev D2: Update mechanical dimensions , fiber parameters and back reflection isolation range---250703



| 光学参数 <sup>1</sup> /Optical Parameters <sup>1</sup>            | Unit  | Minimum | Typical                       | Maximum |
|---------------------------------------------------------------|-------|---------|-------------------------------|---------|
| 输出功率/Output Power@20A                                         | W     | 500     |                               |         |
| 中心波长 <sup>2</sup> /Center Wavelength <sup>2</sup>             | nm    | 975     | 976                           | 977     |
| 光谱宽度/Spectral Width(FWHM)                                     | nm    |         | 0.5                           | 1       |
| 95%出光NA/95% Power Within NA                                   | NA    |         | 0.17                          |         |
| 防反射波段/Back Reflection Isolation Range                         | nm    | 1040    | 1064                          | 1200    |
| 防反射隔离度/Back Reflection Isolation                              | dB    | 30      |                               |         |
| 光纤参数/Fiber Parameters                                         |       |         |                               |         |
| 纤芯直径/Fiber Core Diameter                                      | μm    | 215     | 220                           | 225     |
| 包层直径/Fiber Clad Diameter                                      | μm    | 239     | 242                           | 245     |
| 光纤数值孔径/Numerical Aperture                                     | NA    | 0.20    | 0.22                          | 0.24    |
| 光纤长度 <sup>2</sup> /Fiber Length <sup>2</sup>                  | m     | 2.0     |                               |         |
| 套管直径/Loose Tubing Diameter                                    | mm    | 1.1     | 1.4                           |         |
| 套管长度/Loose Tubing length                                      | m     | 1.7     | 2.0                           |         |
| 光纤接头/Fiber Connector                                          |       |         | Bare Fiber/SC Ceramic Ferrule |         |
| 弯曲半径/Fiber Bend Radius                                        | mm    | 60      |                               |         |
| 电学性能 <sup>3</sup> /Electrical Parameters <sup>3</sup>         |       |         |                               |         |
| 光电转换效率/Conversion Efficiency                                  | %     |         | 45                            |         |
| 阈值电流/Threshold Current                                        | A     |         | 1.3                           |         |
| 工作电流 <sup>3</sup> /Operating Current <sup>3</sup>             | A     |         |                               | 20.0    |
| 工作电压 <sup>3</sup> /Operating Voltage <sup>3</sup>             | V     |         | 62.0                          | 63.5    |
| 波长锁定电流区间/WL Locked Operating Current                          | A     | 10.0    |                               | 20.0    |
| 热学性能 <sup>3</sup> /Thermal Parameters <sup>3</sup>            |       |         |                               |         |
| 工作温度 <sup>4</sup> /Operating Temperature Range <sup>4</sup>   | °C    | 20      |                               | 30      |
| 壳体温度 <sup>1,4</sup> /Package Temperature Range <sup>1,4</sup> | °C    |         |                               | 45      |
| 盖板温度 <sup>1</sup> /Lid Temperature Range <sup>1</sup>         | °C    |         |                               | 70      |
| Boot温度 <sup>1</sup> /Boot Temperature Range <sup>1</sup>      | °C    |         |                               | 45      |
| 存储温度/Storage Temperature Range                                | °C    | -30     |                               | 85      |
| 温漂系数/Wavelength Temperature Coefficient                       | nm/°C |         | 0.03                          |         |
| 加电脚焊接温度/ Lead Soldering Temperature                           | °C    |         | 400                           | 420     |
| 加电脚焊接时间/Lead Soldering Time                                   | s     |         |                               | 5       |
| 机械尺寸图/Mechanical Dimensions Drawing                           |       |         |                               |         |

单位/Unit mm



重量典型值/Typical value of weight 2007g

<sup>1</sup> 在25摄氏度冷板温度下测得。 Tested at 25°C cold plate temperature.

<sup>2</sup> 可根据客户需求定制。 Others available upon request.

<sup>3</sup> 超规格使用会导致激光器寿命减少。 Reduced lifetime if used above nominal operating conditions.

<sup>4</sup> 激光波长会随壳体工作温度变化产生漂移。 Laser Wavelength would shift when package operating temperature is changed.

※盖板采用柔性设计，有效减少壳体变形。使用过程中，发生响声属于正常现象，不影响产品的性能和可靠性。