

超辐射发光二极管 (SLD) 单路输出光源模块, 输出功率不高于3mW。内置微机实施安全监控, 采用高精密恒流源设计与高精度脉宽调制 (PWM) 精密温度控制技术。输出光功率与光谱稳定, 生产工艺控制与测试流程严格, 长期稳定性优于2% (8hr)。主要用于光纤传感系统设备及光电检测研发实验等。

Super luminescent diode (SLD) single output light source module, with output power not higher than 3mW. The built-in microcomputer implements safety monitoring, and adopts high-precision constant current source design and high-precision pulse width modulation (PWM) precise temperature control technology. The output light power and spectrum are stable, the production process control and testing process are strict, and the long-term stability is better than 2% (8hr). It is mainly used for optical fiber sensing system equipment and photoelectric detection research and development experiments.

主要特点 Features

- 输出光功率高 High output optical power
- 光功率稳定性高 High stability of optical power
- 波长稳定性高 High wavelength stability
- 光谱纹波小 Small spectral ripple
- 可靠性高 High Reliability

应用领域 Applications

- 设备研发与生产 Equipment R&D and production
- 光无源器件测试 Optical passive device test
- 分布式光纤光栅传感系统 Distributed fiber grating sensing system
- 光纤传感系统 Optical fiber sensing system
- 光谱分析 spectral analysis



性能参数:

| 参数 Parameter | 性能指标 performance index | | | |
|-----------------|------------------------------------|------|------|----|
| | 最小值 | 典型值 | 最大值 | 单位 |
| 输出功率 | 1.0 | | 3.0 | mW |
| 中心波长 | 1530 | 1550 | 1570 | nm |
| 光谱带宽 | 30 | 45 | - | nm |
| 长期稳定度(8 小时) | - | 0.6 | 2.0 | % |
| 短期稳定度 (1 小时) | - | 0.4 | 0.6 | % |
| 工作环境温度 | 0 | | +65 | °C |
| 主体外形与安装孔尺寸 | 80×112×27 / 73×93×Ø3.5 (4 个安装孔) | | | mm |
| 光连接器 | FC/PC、FC/APC 或跳线输出 | | | |
| 开机启动时间 | <5s | | | |
| 供电电压 | 5.0±0.2Vdc | | | |
| 供电电流 | ≤1A | | | |

波长可根据客户需求定制