

超辐射发光二极管 (SLD) 单路输出光源模块, 输出功率大于 10mW。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 greater than 10mW. 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



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	10		-	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	≤1.8A			

波长可根据客户需求定制