

## 1550nm SLD 宽带光源微型模块

### 1550nm SLD Broadband Light Source Micro-Module

#### 1. 描述(Description):

1550nm SLD 宽带光源采用半导体超辐射二极管技术输出宽带光谱，输出功率高，适用于光纤传感等应用。可以提供通信接口和主机软件，以方便改变光源输出功率大小。

The 830nm SLD broadband light source adopts semiconductor super radiation diode technology to output broadband spectrum and high output power. Communication interface and host computer software can be provided to adjustment output power. suitable for optical fiber sensing and other applications.

#### 2. 特性(Features):

- 超宽光谱 Ultra Wide spectrum;
- 低光谱纹波 Low spectral ripple;
- 平坦光谱 Flat spectrum;
- 可定制 Customizable.

#### 3. 应用(Applications):

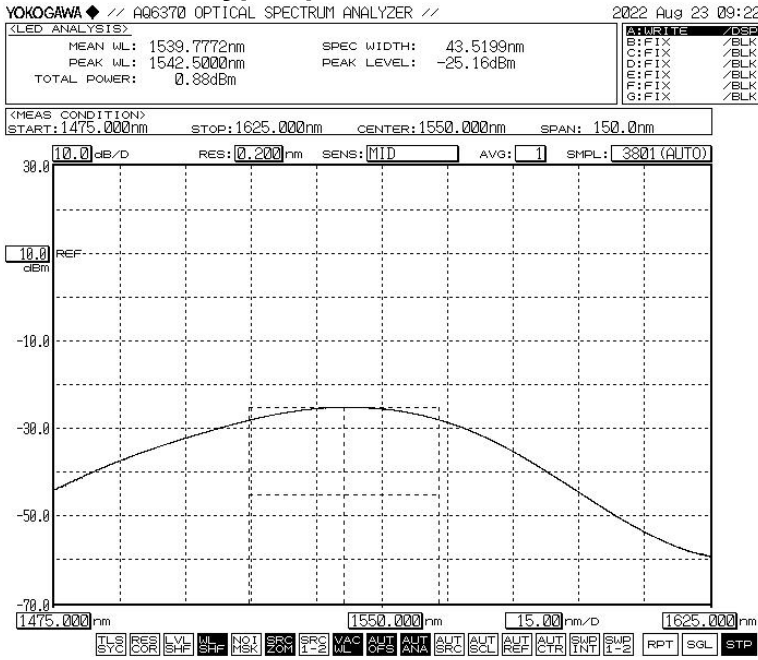
- 光纤陀螺 Fiber optic gyroscope;
- 医学影像学 Medical Imaging;
- 光学相干断层扫描 Optical coherence tomography.



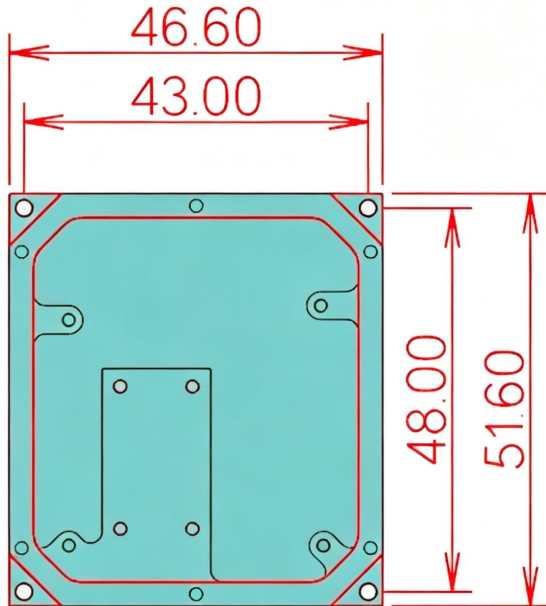

#### 4. 光电特性(Electro-Optical Characteristics):

参数 Parameters	单位 Unit	参数 Values		备注 Notes
工作波长 Operating wavelength	nm	1550		±20
出纤功率 Output power	mW	>3	>10	
-3dB 带宽 Bandwidth	nm	>30		
短期稳定性 Short-term stability	dB	≤ ±0.02/15 min		
长期稳定性 Long-term stability	dB	≤ ±0.05/8 hours		
光隔离器 Optical isolator	dB	Without		Module
光纤类型 Pigtail fiber	-	SMF-28e/PM1550		FC/APC
通信 Communication interface	-	DB9 Female(RS485)		Module
供电 Power supply	-	5VDC, <15W		Module
尺寸 Dimensions	mm	46.6(W)×51.6(D)×15(H)		Module
工作温度 Operating temperature	℃	-5 ~ +55		
工作湿度 Operating humidity	℃	0~70%		

5. 典型光谱 (Type spectrum) :



6. 结构尺寸图 (Dimension diagram) :



7. 订购信息 (Order information) :BSLD-1550-03SM-FA-MIC

宽带光源 SLD Source	工作波长 Wavelength	输出功率 Output power	光纤类型 Fiber type	光接头 Fiber connector	尺寸 Dimension
BSLD	-XXX	-XX	XX	XX	-X
SLD Laser source	1550: 1550nm	03: 03mW 10: 10mW	SM: SMF-28e PM: PM1550	FA:FC/APC Other	MIC: Micro-Module