

ROF-SLD series

SLD low bias wideband light sources

The ROF-SLD series of SLD low bias wideband light sources adopt unique ATC and APC circuits as well as optical fiber bias elimination technology to ensure high output optical power stability and spectral waveform stability. Meanwhile, they feature a wide spectral coverage range, high output power, and low coherence characteristics, which can effectively reduce system detection noise. Improve spatial resolution (for OCT applications) and enhance measurement sensitivity (for optical fiber sensing). Through unique circuit integration, an ultra-wideband light source with an output spectral bandwidth as high as 400nm can be achieved, mainly applied in optical coherence chromatography technology, optical fiber sensing systems, as well as communication and measurement systems.

Feature

- Multiple wavelengths are available, ranging from 800 to 1600nm
- Low coherence
- High power stability
- It has excellent spectral flatness
- Module and desktop options are available

Application

- Optical fiber sensing system
- Fabrication and testing of passive components
- Optical testing instrument



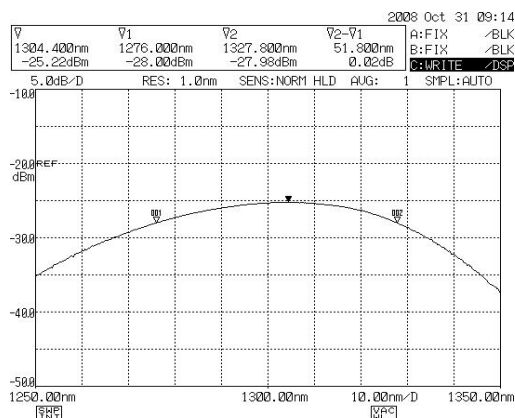
Parameter

Parameter	Typ				Unit
operating wavelength	850	1310	1550	1250~1650	nm
spectral width	>30	>30, >70	>35, >70	>400	nm
output power	>5	>5, >10	>5, >10	>10	mW
Spectral ripple	<0.2	<0.2	<0.2	<0.2	dB
Polarization extinction ratio	≤0.2	≤0.2	≤0.2	≤0.2	dB
Short-term stability @15 min	≤±0.01				dB
Long-term stability @8 hours	≤±0.05				dB
working mode	continuous				
Specifications	Desktop (adjustable output power)			Module (fixed output power)	
External dimensions L x W x H	320×280×109 mm			90×70×16mm	
Power requirements	AC 220V ±10% 30W			DC +5V	
Output fiber	SMF/PMF				
Output optical connection	FC/PC FC/APC Or user specified				

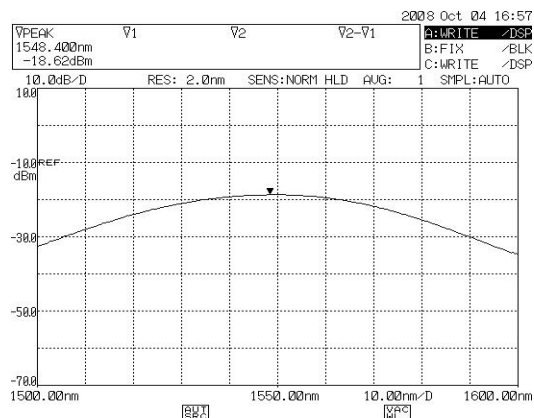
Limit Conditions

Parameter	Symbol	Unit	Min	Typ	Max
Operating Temperature	Top	℃	-5		50
Storage temperature	Tst	℃	-40		85
humidity	RH	%	5		90

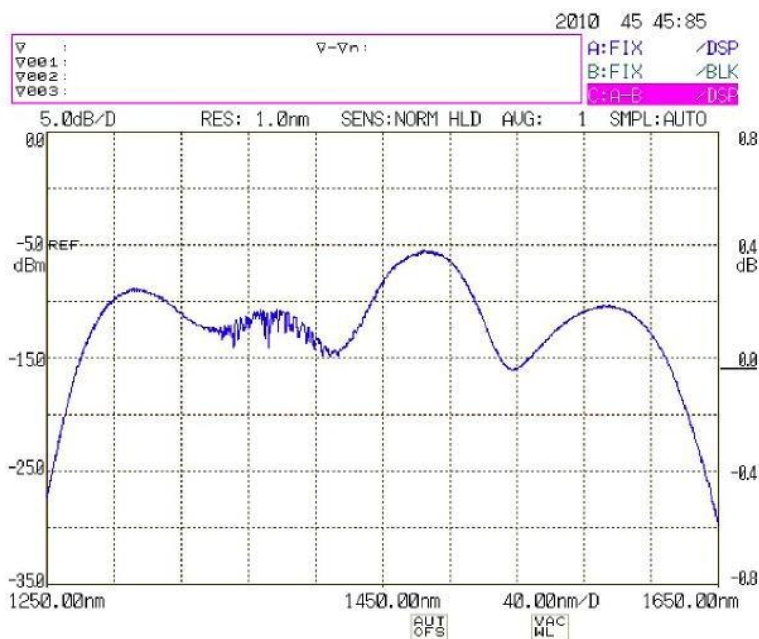
Typical spectra



1300nm spectrogram



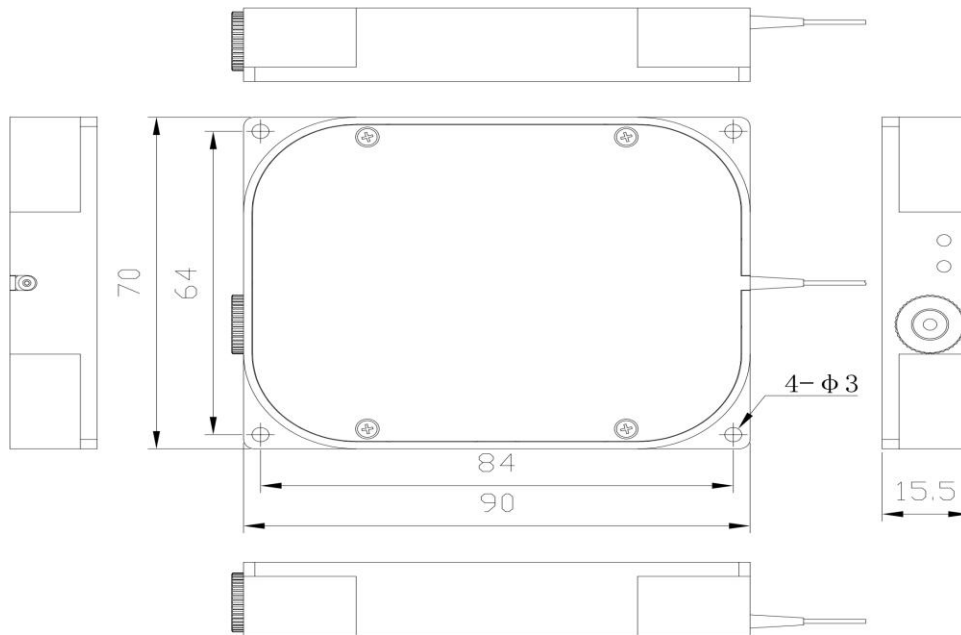
1550nm spectrogram



-25dBm/nm spectrum

1250-1650nm Ultra wideband spectrogram

structural dimensions



(Unit: mm)

Order information

ROF	SLD	XX	X	XX	X	XX
	SLD	operating wavelength: 08---850nm 13---1310nm 15---1550nm 1216---1250~1650nm	Encapsulation: D - Desktop M - Module	power: 1--1mW 5--5mW 10--10mW	pigtail: P---PMF S---SMF	Fiber optic connector: FP---FC/PC FA---FC/APC SP--- user specified

*please contact our sales if you have special requirements.