

**LOW COHERENT 850nm SLD LIGHT SOURCE****LSS002/850**

High power and low coherent SLD light source having center wavelength at 850nm.

**[Product overview]**

It is high power and low coherent light source having center wavelength at 850nm, that is most adequate for measuring insertion loss and other optical parameters for optical inter connection and OPCB application.

It equips high intensity SLD (Super Luminescent Diode) as Light-emitting device, with center wavelength at 850nm±20nm / half width is 20nm. Ideal light source for insertion loss measurement, optical characteristic measurement of polymer optical waveguide module for OPCB substrate, optical fiber, and any other optical interconnect application.

**[Feature]**

- \* High power and low coherent light source equipping high intensity SLD.
- \* The center wavelength is 850±20nm and half width is 20nm and covers wide bandwidth.
  - It can measure such as insertion loss for optical inter-connection and optical circuit boards at the wavelength of VCSEL light source.
- \* High stability with temperature control
  - Typically less than 0.5% per one hour and less than 2% per 12 hours with 1 hour aging after power on.

**[Summary of specification]**

- \* Optical output approx. 2mW (at APC-SM fiber output edge)
- \* Output connector FC connector
- \* Light source 850nm high power SLD
- \* Center of wavelength 850nm±20nm
- \* Wavelength width 20nm (Full width half maximum)
- \* Output stability typ.0.5% or less (per one hour with 1 hour aging after power on.)  
typ.2% or less (per 12 hours with 1 hour aging after power on.)
- \* Power supply AC100V±10%、50/60Hz

**[Application]**

- \* As the light source of insertion loss measurement for polymer optical waveguide for OPCB application
- \* As for transmission characteristic evaluation of optical fiber
- \* As for optical characteristic evaluation of various light emitting and light receiving detector mainly for optical interconnect application.
- \* As low coherent light source for general optical measurement in NIR range.

**[Main component]**

- \* LSS002/850 main unit : 1
- \* AC cable : 1
- \* Key switch : 1

## ● On-demand optical light source module, optical module production service

According to customers' requirement specification, Synos produces on-demand optical module, from design to production. Acceptable small-scale orders.

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- \* Optical module production in small production such as trial manufacture
- \* Design and production of special light source for measurement
- \* Design and Production of special optics and optical unit, module, etc.

**[Example of on demand production service]**

- \* Fiber output type custom LD module

It is possible to design and produce LD pigtail LD module in combination with LD and optical fiber according to requirement of LD, optical fiber, output connector. As LD and fiber module part is fixed by YAG laser welding, it has the high reliability in long term. Acceptable small-scale order.

- \* Custom design optics and optical unit

Synos can design and produce various special optical unit and modules using special lens and optical components according to customers' requirement.

- \* It is necessary to examine and fix the specification before order. Please feel free to ask.

