

LOW COHERENT 850nm SLD LIGHT SOURCE

LSS002/850

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

LSS002/850 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 interconnection application. It equips high intensity SLD (Super Luminescent Diode) as Light-emitting device, with center wavelength at $850\text{nm} \pm 20\text{nm}$ /half width is 20nm. Ideal light source for insertion loss measurement, optical characteristic measurement of polymer optical waveguide module for OPCB, optical fiber, and any other optical interconnect application.

[Feature]

- High power and low coherent light source equipping high intensity SLD.
- The center wavelength is $850 \pm 20\text{nm}$ and half width is 30nm(typ.) . Covers wide bandwidth.
 - It can measure insertion loss, optical characteristics of polymer waveguide modules, optical fibers for optical interconnect application 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 specifications]

- Optical output: approx. 2mW (at APC-SM fiber output)
- Optical output connector: FC connector
- Light emitting device: 850nm high power SLD
- Center wavelength: $850\text{nm} \pm 20\text{nm}$
- Wavelength width: typ. 30nm (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 $\pm 10\%$ 、50/60Hz

[Standard component]

- Main unit: 1
- Power supply cable: 1
- Key for key switch: 1



● ON DEMAND OPTICAL LIGHT SOURCE MODULE, OPTICAL MODULE DESIGN AND PRODUCTION SERVICE

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

According to customers' requirement specification, Synos will produce optical modules by request of customers, from design to production. Acceptable small-scale orders.

- 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 custom pigtail LD module in combination with LD and optical fiber according to requirement of LD, optical fiber, output connector. As parts of LD and fiber module are fixed by YAG laser welding, it has 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.**

