

HIGH STABILITY FC CONNECTOR OUTPUT LD LIGHT SOURCE

LSL001 series

High stability DC-LD light source unit with FC connector output type.

【Product overview】

LSL001 series is FC connector output type, high stability DC-LD light source unit. As is FC connector output type lightsource, various optical fibers on the market are available. Furthermore, as optional version, it is available to prepare polarization maintaining optical fiber output. As various types of laser diodes on the market are set in, it is possible to choose from various types such as wavelength, out- put power, etc.

【Feature】

- * Easy to use because of all-in-one unit including light source, driver circuit, power supply, etc.
- * Because of using laser diode on the market, it is possible to choose various type of light source in power, wavelength, etc.
- * High stability in output power and wavelength with APC and temperature control.
- * As standard version, it is singlemode fiber and FC connector output. As optional version, it is available to prepare polarization maintaining optical fiber output.

【Summary of specification】

- * Optical output power Standard : approx. 1mW
(option) it is available to prepare high power output version.
- * Optical output connector Standard : SM fiber + FC connector
Option : polarization maintaining optical fiber + FC connector
- * LD driver APC + temperature control by Peltier device
- * Output stability typ.±1%
- * Power supply AC100V±10%、50/60Hz

【LD selection】

Peak wavelength(nm)	375	405	488	520	635	658	785	850	980	1064	1310	1550
Wavelength tolerance(nm)	±5	±5	±5	±10	±10	±10	±10	±15	±10	±10	±20	±30
Max. output power(mW)	1	1	1	1	1	1	1	1	1	1	1	1
Power stability(%)	±1	±1	±1	±1	±1	±1	±1	±1	±1	±1	±1	±1
Mode field diameter(μm)	2.2	3	3.5	3.5	4.5	4.5	5.0	5.0	5.9	5.9	9.2	10.4
N.A.	0.13	0.13	0.12	0.12	0.12	0.12	0.13	0.13	0.14	0.14	0.14	0.14



【Application】

- * As a light source for evaluation and optical characteristic measurement of optical fiber, optical waveguide, light detecting device, optical module and so on.
- * As a light source of insertion loss measurement for various optical waveguide.
- * As a light source for various measurement using laser in general.

【Main component】

- * LSS001 main unit : 1
- * AC cable : 1
- * Key switch : 1

COMPACT TYPE SMF OUTPUT LD LIGHT SOURCE

LSL011 series

Compact and SMF output type LD light source unit with SM fiber output type. Low cost and easy to use.

【Product overview】

LSL011 series is compact and SMF output type LD light source unit. As is SM fiber output type lightsource with LD, driver circuit, TEC, power supply, it is very easy to use. As various types of laser diodes on the market are set in, it is possible to choose from various types such as wavelength, out- put power, etc. Pulse emission is also available with external TTL trigger input.

【Feature】

- * Easy to use as is all-in-one unit with SM fiber, driver circuit, TEC, power supply.
- * Because of using laser diode on the market, it is possible to choose various type of light source in power, wavelength, etc.
- * High stability in output power and wavelength with ACC and temperature control.
- * Pulse emission with external TTL trigger input.

【Summary of specification】

- * Light source module SMF coupling FP-LD
- * Fiber length 50cm or more
- * Output connector FC/PC
- * Drive control ACC and temperature control
- * Pulse emission TTL input (high : on, low : off)
maximum repetition > 1kHz
- * Power supply AC100-240V 50/60Hz 0.3A
- * dimension, weight 60(W) x 50(H) x 120(D)mm/400g
(except protection component)
AC100V±10%、50/60Hz

【LD selection】

Peak wavelength(nm)	375	405	445	473	488	520	635	660	785	850	980	1064	1310	1550	1620
Wavelength tolerance(nm)	±5	±5	±5	±5	±5	±10	±10	±10	±10	±10	±10	±10	±10	±10	±15
Max. output power(mW)	1	1	10	10	10	10	5	10	10	10	10	10	10	10	4
Power stability (%)	±1	±1	±1	±1	±1	±1	±1	±1	±1	±1	±1	±1	±1	±1	±1
Mode field diameter (μm)	2.9	2.9	2.9	3.5	3.5	3.5	4.0	4.0	5.0	5.0	4.2	4.2	9.0	9.0	9.0
N.A.	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.13	0.13	0.13



【Application】

- * As a light source for evaluation and optical characteristic measurement of optical fiber, optical waveguide, light detecting device, optical module and so on.
- * As a light source of insertion loss measurement for various optical waveguide.
- * As a light source for various measurement using laser in general.

【Main component】

- * LSS011 main unit : 1