



Switchable Multi Wavelength Source

FIBERPRO's Switchable Multi - Wavelength Source (ML5000) is ideal for various kinds of applications from basic laboratory use to test system for components in production line. ML5000 offers exceptionally high performance and provides very useful flexibilities on diverse characteristics from type / number of LDs to its channel switchability so users can choose the spec. of source as they need.

SMWS

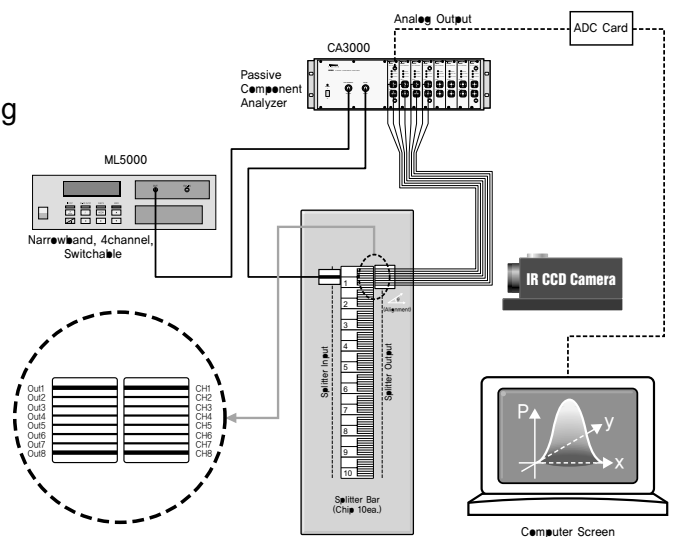


Features

- High flexibility
 - Kinds / number / wavelength of LD
 - Power level
 - Stability
 - Channel switching function
- Excellent stability
- Very Fast wavelength-switching speed : 0.1sec.
- GPIB / RS-232 Support

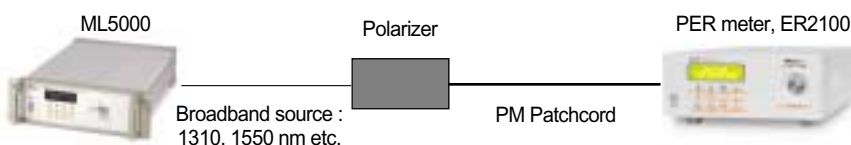
Applications

1. Passive components manufacturing



<Ex : 1 x 8 splitter chip test set up>

2. PER measurement : 1310, 1550 nm etc.



<Ex : PER measurement of PM patchcord>

3. General Laboratory Source (Components Testing, Optical Inspection)

Specifications

| Laser Source Spec | | |
|--------------------------------|---|------------------------|
| Specification | Grade | |
| | Premium | Standard |
| Wavelength (nm) | 680 ~ 1610 nm (user selects : up to 5 channels) ^{1), 2)} | |
| Laser Power Range | 0.1mW ~ 1.6mW | |
| Laser Power Setting Resolution | 0.1mW | |
| Power Stability | Short Term, 1 hour | ± 0.001dB |
| | Long Term, 24 hours | ± 0.01dB |
| Standard | Short Term, 1 hour | ± 0.01dB |
| | Long Term, 24 hours | ± 0.04 dB |
| Spectral width (-20dB) | max. 1nm | |
| Wavelength Accuracy | max. ± 3 nm | |
| Optical Isolation | min. 30 dB | |
| Switch Spec | | |
| Insertion Loss | 0.5 (max. 0.7) dB | |
| Wavelength | 1270 to 1670 nm | |
| Return Loss | 62 (max. 57dB) dB | |
| PDL | 0.02 (max. 0.04) dB | |
| Insertion Loss Stability | ± 0.02 (max. 0.025) dB | |
| Repeatability | Sequential switching | ± 0.005 (max. 0.01) dB |
| | Random switching | ± 0.01 (max. 0.05) dB |
| Crosstalk | - 90 dB | |
| Switching time | 25/15 ms (one channel / each additional channel) | |
| Optical Input Power | 300 mW continuous | |
| Lifetime | At least 10 million cycles | |
| Electric Spec | | |
| Input Voltage | 100 ~ 240 VAC | |
| Input Frequency | 50 ~ 60 Hz | |
| Power Consumption | 50 W | |
| Environmental Spec | | |
| Operating temperature | 10 ~ 40 °C | |
| Storage temperature | - 10 ~ 60 °C | |
| Humidity | Max. 90 % RH, From 0 ~ 40 °C | |
| Dimension | 420(W) × 212(D) × 86(H) mm / 210(W) × 212(D) × 86(H) mm | |

¹⁾ Possible wavelength is different according to LDs to be used.

²⁾ Please ask for more channels

Ordering Code

ML5000 - (1) - (2) - (3) - (4) - (5) - (6)

(1) Number of Channels ¹⁾: 1,2,3,4,5 ²⁾

(2) Type of LD : DFB(D), SLD(S), FP(F)

(3) Power level : 1mW(1), 2mW(2), High power(H)

(4) Grade : Premium(P), Standard(S)

(5) Switch : Included(O), Not Included(X)

(6) Connector Type : FC/PC(F/P), FC/APC(F/A), SC/PC(S/P), SC/APC(S/A)

¹⁾ Wavelengths :

²⁾ Please ask for more channels

Ex.1) ML5000-1-S-2-P-X-F/P (1310 nm) : 1310nm broadband source with 2mW output power,
Premium stability, FC/PC connector

Ex.2) ML5000-4-D-1-P-O-F/A (1280, 1310, 1490, 1550 nm) : Switchable Multi Wavelength
Source with four wavelength channels, Premium stability,
FC/APC connector



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