

(Wavelength tunable single frequency DFB laser diode in 1030nm)

WT-SF-DFB-LD-1030

- Broad wavelength tunable laser (1027~1033nm)
- Continuous tunable laser depending on temperature modulation
- Single longitudinal frequency DFB laser
- Fiber output with polarization maintaining single mode fiber
- Turn-key type and easy to handle



WT-SF-DFB-LD-1030 / Image

Composition

1030 nm band DFB laser diode
(wavelength variable and with FC/APC connector)
Electric and temperature controller

Price and lead time

Price: USD 14,700
(Ex-works Japan and without Tax)
Lead time: Around 1~ 2 months
after order receipt

Application

Seed light source for Yb laser
Laser microscopy and OCT
Laser material processing
THz light source
Raman Spectroscopy
Interference sensing
LIDAR

For further product information,

<http://en.symphotony.com/dfb-laser-diode-in-1030nm/>

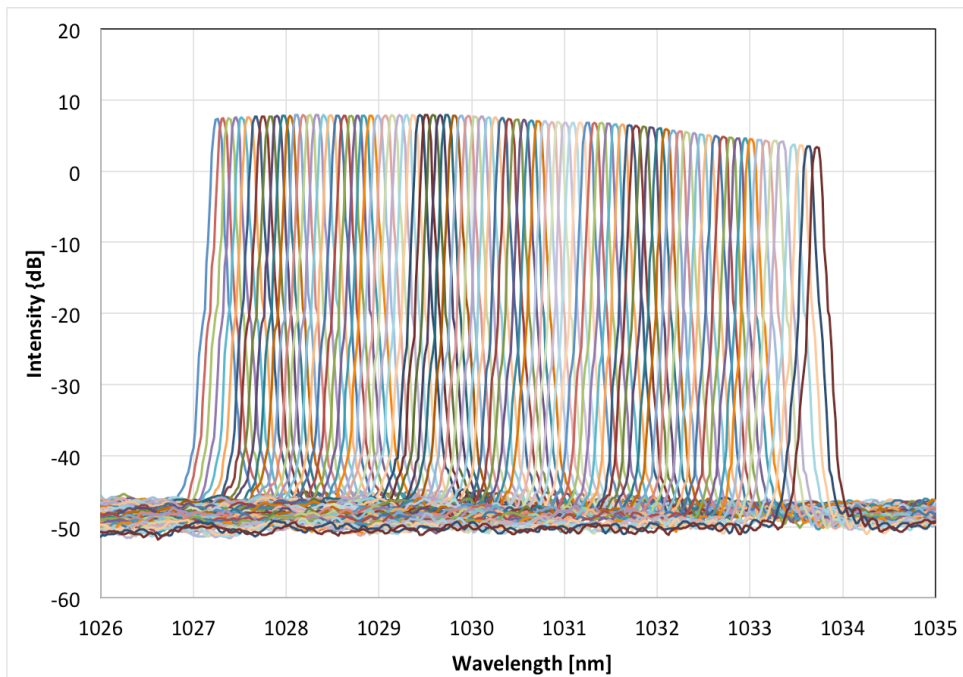
This is single longitudinal frequency CW laser which is tunable in range between 1027nm and 1033nm (6nm). Continuous wavelength tunable is possible with mode-hop free condition by modulating temperature on DFB (distributed - feedback) laser diode between 0°C~80°C.

Narrow line-width laser can be obtained with low noise. Size is compact because of no using external grating and wavelength variable filter.

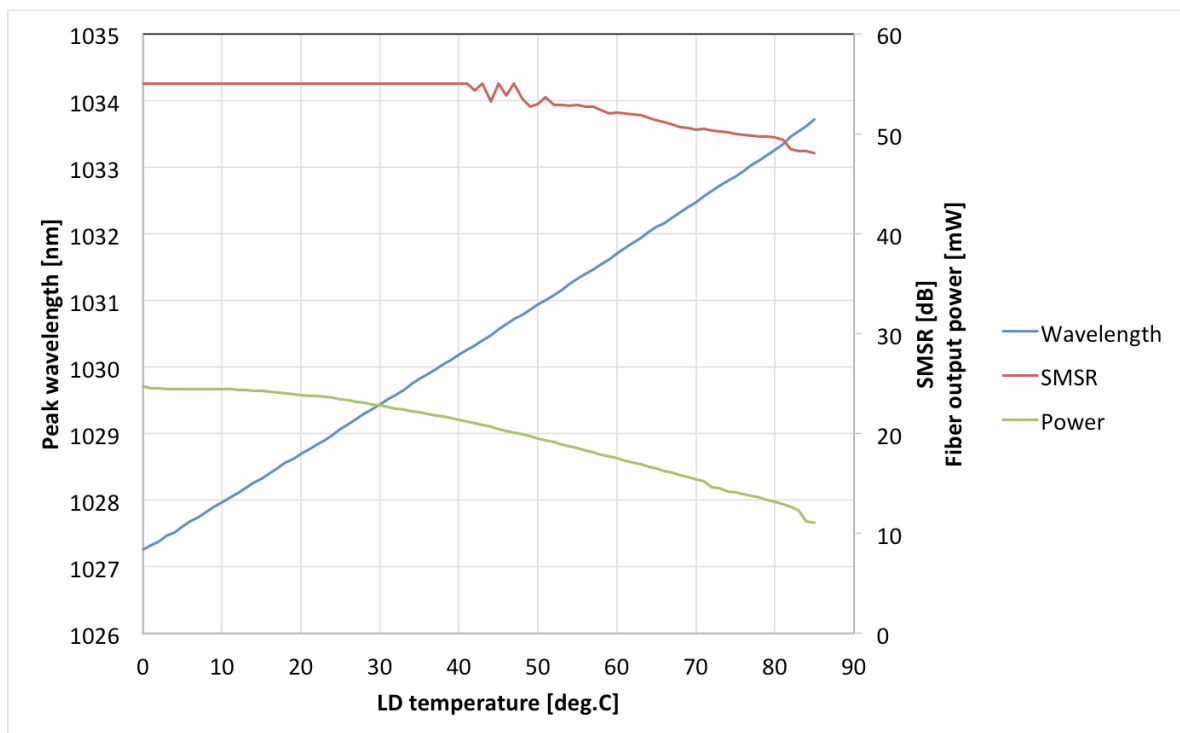
Specification

	Specification	Remark
Peak wavelength	1030 +/- 3 nm	tunable
Temperature factor	0.08 nm/K	
Current factor	0.01 nm/mA	
Threshold current	20 mA	
Drive current	150 - 200 mA	
Drive voltage	1 - 2 V	
Source voltage	100 - 240 V AC	
Power frequency	50 / 60 Hz	25 +/- 10 °C
Size	320 mm x 84 mm x 230 mm	Except leg and ridge
Weight	Around 2 kg	

Wavelength is tunable by modulating the temperature.
 Continuous wavelength tuning is possible with mode hop free condition.



Spectral change of optical output with temperature modulation



Peak wavelength, output, and SSMR at each temperature