

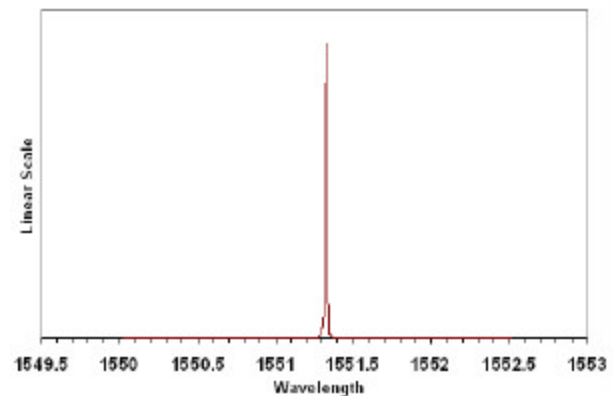


OETLS-100 Tunable Laser Source

Description

OETLS-100 series from O/E Land Inc. are low-cost laser sources providing a user controllable wavelength and output power level. Using a unique temperature and optic power compensation system, the source is able to provide excellent stability in both wavelength and power over a wide range of ambient temperatures. Unlike conventional sources that may require half an hour to warm up, the fast starting design of this source allows the device to achieve stable operation within seconds of being turned on.

O/E Land Inc. provides many choices for customization. The optional center wavelength covers 960nm to 1570nm. The spectrum width is from 0.2nm to 4nm. The pigtail output power is from 0.5mW to 20mW. Using the PC utility software, OETLS-100 can automatically sweep the whole band with stable output power. This makes it possible to interrogate FBG sensors.



Features

- User tunable wavelength
- User controllable power level (OETLS-100A only)
- Excellent power and wavelength stability over wide operating temperature
- Very short warm-up time
- USB port for computer control
- Small size, low cost
- Customization for center wavelength, spectrum width and output power.

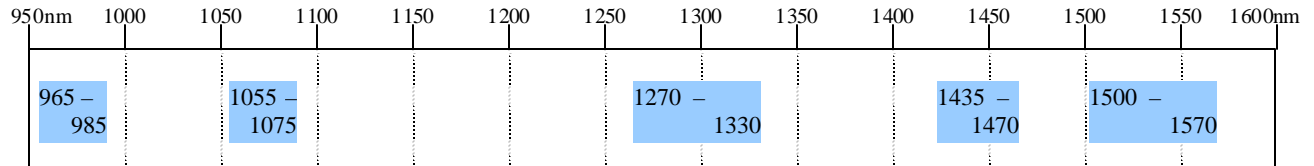
Applications

- DWDM network testing
- FBG sensor interrogation
- Component testing
- Instrument wavelength and power calibration
- General lab use



OETLS-100 Tunable Laser Source

Available Center Wavelengths



General Specifications

Wavelength tuning range	Min. 3 nm	Typ. 4 nm	Max. 5nm
Center wavelength accuracy	4 pm		
Center wavelength resolution	1 pm		
Tuning response time ¹	Typ. 30 seconds		
Output power ²	0.5 to 20mW (Optional)		
Power stability ^{3,4}	Min. 0.005 dBm	Typ. 0.01dBm	Max. 0.1 dBm
Output Connector	FC/PC, FC/APC		
Output Fiber	SMF-28		
Center wavelength control	Front panel knob and Remote control		
Output power control ⁵	Front panel knob and Remote control		
Protection	Over current limit, over heat limit		
Warm-up time	30 seconds		
Remote communication interface	USB 2.0		
Operating temperature	0°C to 40°C (32°F to 104°F)		
Storage temperature	-10°C to 70°C (14°F to 158°F)		
Relative humidity	0% to 95% non condensing		
Size (H x W x D)	115mm x 250mm x 250mm		
Power supply	110V/220V, 50/60Hz		

Notes:

1. From minimum wavelength to maximum wavelength.
2. Customized, please contact O/E Land Inc. for your requirement.
3. The stability is expressed as \pm half the difference between the maximum and minimum values during one hour after half hour warm-up.
4. Power stability is depended on the output power rate.
5. Only OETLS-100A has this function.