

Wavelength Selectable Laser WSL-100

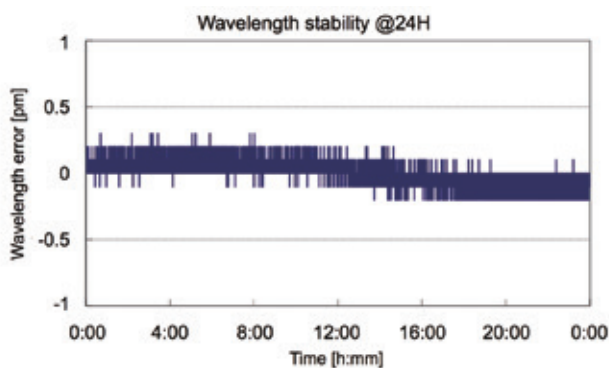
The WSL-100 is a compact and cost effective tunable laser source. Designed for use in fiber optic transmission testing, the WSL-100 can also be used for DWDM component evaluation and Coherent communications testing. C-band or L-band lasers are available, each covering a 38nm tuning range. The WSL-100 features Gridless tuning, allowing any wavelength to be accessed. An integrated wavelength locker ensures high wavelength accuracy and stability. This laser can be controlled either through the front panel or by using a GPIB interface, allowing full remote control and measurement automation.



Features

- ▶ C-band or L-band tuning with high resolution
- ▶ Settable to any wavelength
- ▶ Fine tuning available with 1MHz resolution
- ▶ Narrow linewidth <100kHz
- ▶ High output power >+15dBm
- ▶ Integrated wavelength locker
- ▶ One or two ports per unit

Measurement data



Applications

- ▶ Fiber optic transmission testing
- ▶ DWDM component testing
- ▶ Coherent communications / Local oscillator
- ▶ Optical amplifier testing

Graphical user interface



Specifications

Parameter	Unit	Gridless tuning	
		C-band	L-band
Wavelength			
Wavelength Range	nm	1527.60 to 1565.50	1570.01 to 1608.76
Frequency Range	THz	191.50 to 196.25	186.35 to 190.95
Channel Spacing	GHz	25 (Any frequency is available.)	
Frequency Accuracy to ITU grid	GHz	<±2.5 / ±1.0 (typ.)	
	pm	<±20 / ±8 (typ.)	
Frequency Repeatability to ITU grid *1	GHz	±0.25 (typ.)	
	pm	±2 (typ.)	
Frequency Stability to ITU grid @1hour *1	GHz	±0.25 (typ.)	
	pm	±2 (typ.)	
Fine tune resolution	MHz	1 (typ.)	
Fine tune range	GHz	±6	
Output power	dBm	7 to 15.5	
Power Variation *2	dB	±0.2 (typ.)	
Power Stability @1hour *1, *2	dB	±0.01 (typ.)	
Spectrum linewidth	kHz	<100	
Side mode suppression ratio (SMSR)	dB	>40 / 55 (typ.)	
Relative intensity noise *3	dB/Hz	-145 (typ.)	
Polarization extinction ratio	dB	>20	
Optical output connector	-	FC/APC or SC/APC	
Interface	-	GP-IB, USB	
Operating	Temperature	°C	
	Humidity	%	
Power supply	Voltage	V	
	Frequency	Hz	
Dimensions (Width x Depth x Height)	mm	210x300x80	
Weight	kg	2.8	

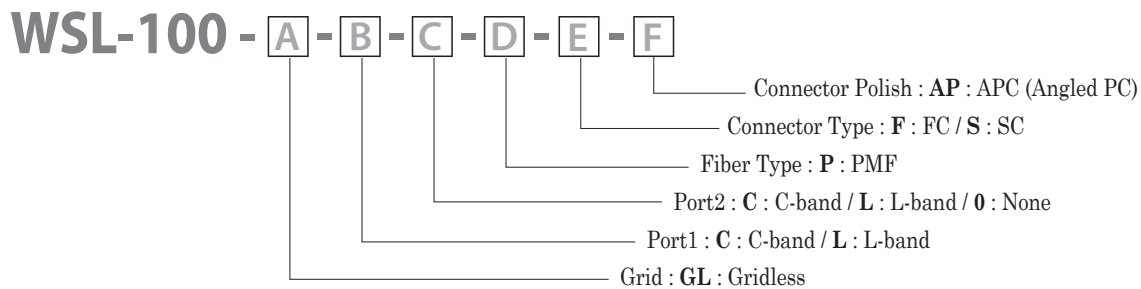
*:All specifications are quoted after 1 hour warm-up period.

*1:At constant temperature ± 0.5 K.

*2:Measured by fiber with angled polished connector.

*3:10MHz to 3GHz

Ordering Code



www.santec.com E-Mail : sales@santec.com

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SANTEC CORPORATION
5823 Ohkusa-Nenjyozaka, Komaki, Aichi 485-0802, Japan Tel. +81-568-79-3536 Fax +81-568-79-1718

SANTEC U.S.A. CORPORATION
433 Hackensack Ave., Hackensack, NJ 07601, U.S.A. Toll Free +1-800-726-8321(santec-1) Tel. +1-201-488-5505 Fax +1-201-488-7702

SANTEC EUROPE LIMITED
1 Lyric Square, London, W6 0NB, U.K. Tel. +44-20-3542-7851

SANTEC (SHANGHAI) Co., Ltd.
11F Room E, Hua Du Bldg., No.838 Zhangyang Road, Pudong, Shanghai 200122 China Tel: +86-21-58361261, +86-21-58361262 Fax: +86-21-58361263