

Full-Band Tunable Laser TSL-210VF

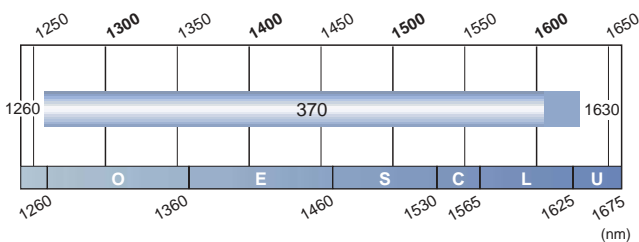
TSL-210VF is a tunable laser that covers from O band to U band. Integrating optical laser units, the TSL-210VF outputs power from 1260 to 1630 nm (370nm range). It can be easily controlled via GPIB with PC and software. It has excellent cost performance and shows advantages for various research and development.



Features

- ▶ 370nm wide tuning range 1260 to 1630nm
- ▶ Peak >+10dBm, 370nm>+6dBm high output power
- ▶ Mode-Hop Free Tuning
- ▶ Easy and automatic operation by exclusive software
- ▶ High accuracy and stability

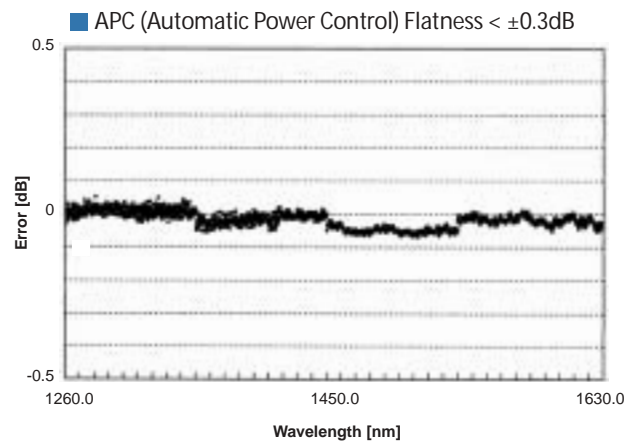
Wavelength



Control Software

TSL-210VF is equipped with a PC, GPIB board/cable, control software as standard and all functions are controlled by GPIB communication. It has excellent performance such as wide wavelength tuning from 1260 to 1630nm and automatic control setting by just entering commands to the PC.

Wavelength vs. Power Flatness



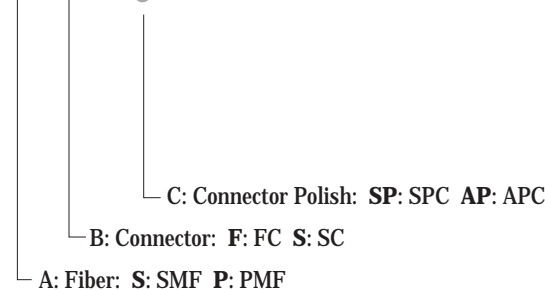
Specifications

Category		Unit		Notes
Wavelength Characteristics	Tuning range (Maximum tuning width)	nm	1260 to 1630 370	
	Resolution	pm	<5	<1pm (with fine tuning)
	Accuracy	pm	<±100	
	Repeatability	pm	<±10	N=50 / Measured at center wavelength
	Stability	pm	<±5	After a warm-up 1h /1hour /Measured at center wavelength
	Fine tuning range	GHz	10	≈0.08nm
	Tuning Speed	nm/s	5	Excludes those points; 1350nm, 1440nm and 1530nm
Power*	Output power	dBm	>+6	Peak >+10dBm
	Accuracy	%	<5	
	Repeatability	dB	<±0.01	N=50 /Measured at center wavelength /at +6dBm
	Stability	dB	<±0.01	After a warm-up 1h /1hour /Measured at center wavelength /at +6dBm
	APC flatness	dB	<±0.3	Measured at +6dBm, APC: Automatic Power Control
Environmental Conditions	Operating temp. range	°C	20~30	non condensing
	Operating humidity range	%	<80	
	Storage temp. range	°C	10~40	non condensing
	Storage humidity range	%	<80	
	Recommendation calibration period	Year	1	Measured at center wavelength
Spectrum	Spectrum line width (Coh. OFF)	MHz	<1(Typ.)	Variable /Measured at center wavelength
	Spectrum line width (Coh. ON)		>160(Typ.)	Measured at center wavelength 50dB (Typ.)
	SSR	dB	>45	Measurement Freq. <1GHz
	RIN	dB	>145	
Interface	Optical connector	-	FC or SC	
	Optical Fiber	-	SMF	
	Connector Polish	-	SPC or APC	IEEE-488
	GP-IB & RS-232C	-	Yes	
Modulation	LF Modulation	KHz	DC to 10	
Power supply	Voltage	V	AC100-240	
	Power Consumption	VA	80/100	AC 100/120 : 80 AC 220-240:100
Dimensions	Width x Height x Depth	mm	430x220x450	
	Weight	kg	25	

*For certain wavelengths below 1500nm performance may not meet specification due to OH absorption.

Ordering Code

TSL-210VF-260630---



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

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SANTEC CORPORATION
 5823 Ohkusa-Nenjoyozaka, Komaki, Aichi 485-0802, Japan Tel. +81-568-79-1959 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
 Magdalen Centre, Robert Robinson Ave., The Oxford Science Park, Oxford OX4 4GA, U.K. Tel. +44-1865-784960 Fax +44-1865-784961

SANTEC (SHANGHAI) Co., Ltd.
 No.800 Zhangyang Road Changhang Tower, Pudong District, Shanghai 200122 China Tel: +86-21-58361261, +86-21-58361262 Fax: +86-21-58361263