

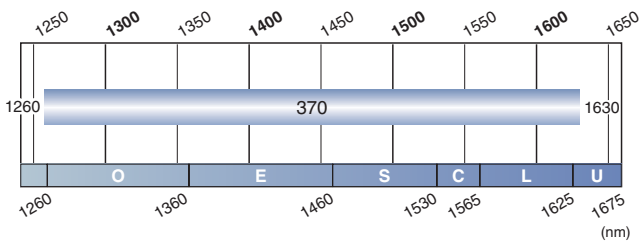
Full-Band Tunable Laser TSL-210VF

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

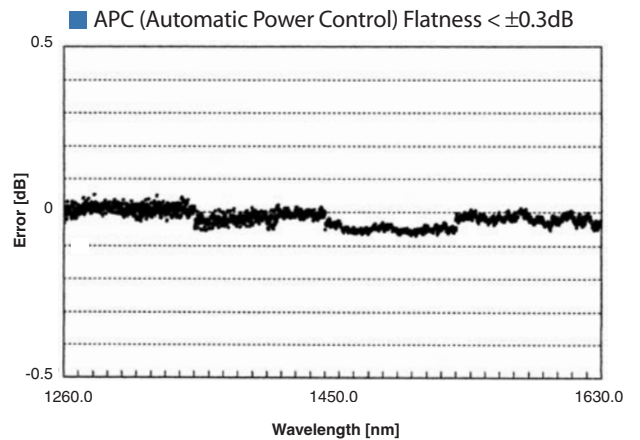
Wavelength



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	
	Resolution	pm	370	
	Accuracy	pm	<±5	<1pm (with fine tuning)
	Repeatability	pm	<±100	
	Stability	pm	<±10	N=50 / Measured at center wavelength
	Fine tuning range	pm	<±5	After a warm-up 1h /1hour /Measured at center wavelength
	Tuning Speed	GHz	10	≈0.08nm
Power*	Output power	nm/s	5	Excludes those points; 1350nm, 1440nm and 1530nm
	Accuracy	dBm	>+6	Peak >+10dBm
	Repeatability	%	<5	
	Stability	dB	<±0.01	N=50 /Measured at center wavelength /at +6dBm
	APC flatness	dB	<±0.01	After a warm-up 1h/1hour/Measured at center wavelength/at +6dBm
Environmental Conditions	Storage temp. range	dB	<±0.3	Measured at +6dBm, APC: Automatic Power Control
	Operating temp. range	°C	20~30	non condensing
	Operating humidity range	%	<80	
	Storage humidity range	°C	10~40	non condensing
Spectrum	Recommendation calibration period	%	<80	
	Spectrum line width (Coh. OFF)	Year	1	Measured at center wavelength
	Spectrum line width (Coh. ON)	MHz	<1(Typ.)	Variable/Measured at center wavelength
	SSR	dB	>160(Typ.)	Measured at center wavelength 50dB (Typ.)
Interface	RIN	dB	>45	Measurement Freq. <1GHz
	Optical connector	-	FC or SC	
	Optical Fiber	-	SMF	
	Connector Polish	-	SPC or APC	IEEE-488
Modulation	GP-IB & RS-232C	-	Yes	
	LF Modulation	KHz	DC to 10	
Power supply	Voltage	V	AC100-240	AC 100/120 : 80 AC 230/240:100
	Power Consumption	VA	80/100	
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-□-□-□□

A B C

A: Fiber: S: SMF P: PMF
 B: Connector: F: FC S: SC
 C: Connector Polish: SP: SPC AP: APC

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