

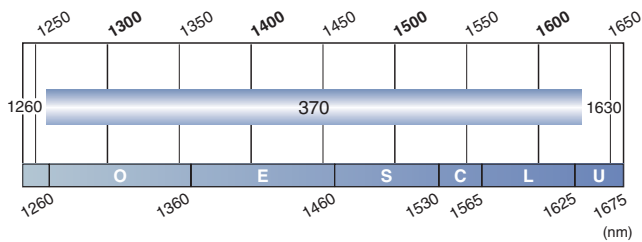
Full-Band Tunable Laser TSL-210F

TSL-210F is a tunable laser that covers from O band to U band. Integrating optical laser units, the TSL-210F 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 >10mW, 370nm>4mW (Typ.) high output power
- ▶ Easy and automatic operation by exclusive software
- ▶ High accuracy and stability
- ▶ Built-in OTF and OVA option available

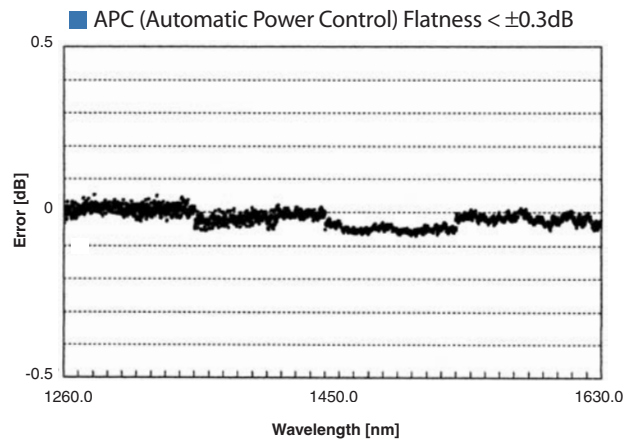
Wavelength



Control Software

TSL-210F 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



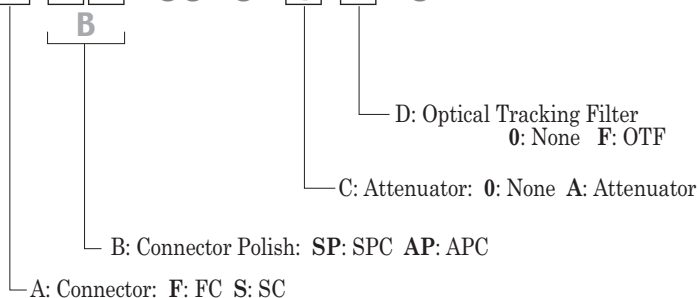
Specifications

Category		Unit		Notes
Wavelength Characteristics	Tuning range (Maximum tuning width)	nm	1260 to 1630	
	Resolution	nm	<0.01	<0.001nm (with fine tuning)
	Accuracy	nm	<±0.1	
	Repeatability	nm	<±0.05	N=50 / Measured at center wavelength
	Stability	nm	<±0.01	After a warm-up 1h /1hour /Measured at center wavelength
	Fine tuning range	GHz	10	±0.08nm
	Tuning Speed	ms/nm	170	Excludes those points; 1350nm, 1440nm and 1530nm
Power*	Output power	mW	>3	Peak >8mW
	Accuracy	%	<5	
	Repeatability	dB	<±0.01	N=50 /Measured at center wavelength /at 3mW
	Stability	dB	<±0.01	After a warm-up 1h/1hour/Measured at center wavelength/at 3mW
	APC flatness (Built in attenuator option)	dB	<±0.3	Measured at 3mW, APC: Automatic Power Control
	(Built in tracking filter option)	dB	0 to 20	Resolution 0.04dB (Typ.)
Environmental Conditions	Operating temp. range	°C	20~30	
	Operating humidity range	%	<80	non condensing
	Storage temp. range	°C	10~40	
	Storage humidity range	%	<80	non condensing
Spectrum	Recommendation calibration period	Year	1	
	Spectrum line width (Coh. OFF)	MHz	<1	Measured at center wavelength
	Spectrum line width (Coh. ON)		1 to 500	Variable/Measured at center wavelength
	SSR	dB	>45	Measured at center wavelength 50dB (Typ.)
RIN	dB	>145	Measurement Freq. <1GHz	
Interface	Optical connector	-	FC or SC	
	Optical Fiber	-	SMF	
	Connector Polish	-	SPC or APC	
	GP-IB & RS-232C	-	Yes	IEEE-488
Modulation	LF Modulation	KHz	0 to 10	
Power supply	Voltage	V	AC100-240	
	Power Consumption	VA	72/92	AC 100/120: 72 AC 230/240: 92
Dimensions	Width x Height x Depth	mm	430x220x450	
	Weight	kg	20	

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

Ordering Code

TSL-210F-260630-S-A-□-□-00-0-C-D-0



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