

Multichannel Wavelength Selectable Laser System **MSL-100**

The MSL-100 is a cost effective multichannel tunable laser system consisting of up to 100 independently tunable lasers. Designed for use in fiber optic transmission testing, the MSL-100 can also be used for DWDM component evaluation. Each laser can be tuned over C-band or L-band, covering a 38nm range with Flexible grid tuning (any frequency channel spacing with 1GHz resolution). Integrated wavelength lockers ensure high wavelength accuracy and stability. The laser system is controlled either through a USB interface or via the front panel touch screen.



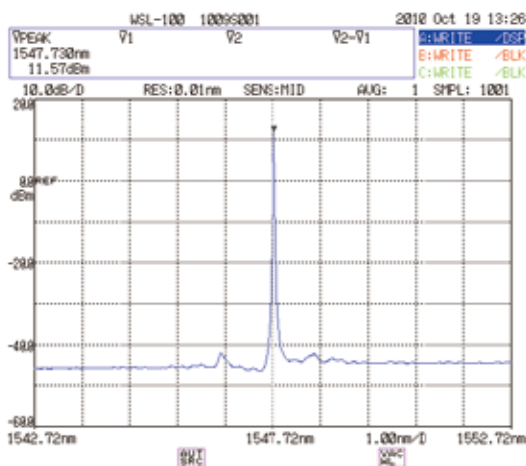
Features

- ▶ C-band or L-band Tuning with high resolution
- ▶ Fine tuning available with 1MHz resolution
- ▶ 25 or 50GHz ITU-T grid tuning
- ▶ Narrow linewidth <100kHz
- ▶ Integrated wavelength locker
- ▶ Touch screen or USB control interfaces

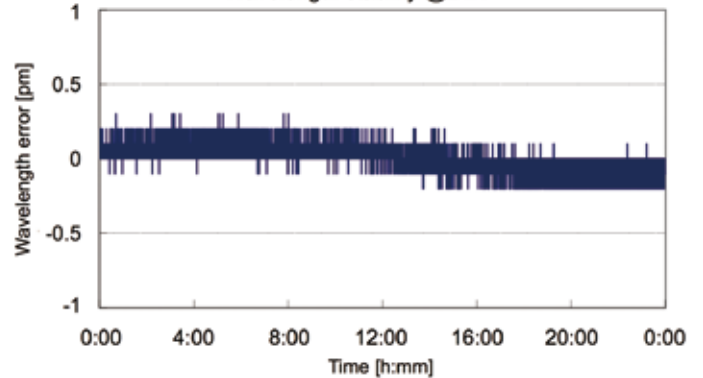
Applications

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

Optical spectrum



Wavelength stability @24H

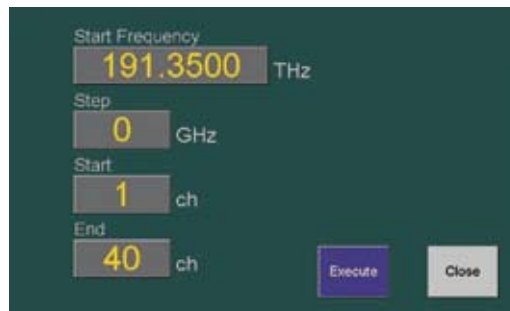


Specifications

Parameter		Unit	Fixed Grid tuning	Flexible Grid tuning
Wavelength Range	C-band	nm	1528.773 to 1566.72	1527.60 to 1565.50
	L-band		1570.416 to 1608.329	1570.01 to 1608.76
Frequency Range	C-band	THz	191.35 to 196.15	191.50 to 196.25
	L-band		186.40 to 190.90	186.35 to 190.95
Channel Spacing		GHz	25 or 50	25 (Any frequency is available.)
Frequency Accuracy to ITU grid		GHz	$\leq \pm 2.5 / \pm 1.0$ (typ.)	$\leq \pm 2.5 / \pm 1.0$ (typ.)
		pm	$\leq \pm 20 / \pm 8$ (typ.)	$\leq \pm 20 / \pm 8$ (typ.)
Frequency Repeatability to ITU grid ^{*1}		GHz	± 0.25 (typ.)	± 0.25 (typ.)
		pm	± 2 (typ.)	± 2 (typ.)
Frequency Stability to ITU grid @1hour ^{*1}		GHz	± 0.25 (typ.)	± 0.25 (typ.)
		pm	± 2 (typ.)	± 2 (typ.)
Fine tune resolution		MHz	-	1 (typ.)
Fine tune range		GHz	-	± 6
Output power	C-band	dBm	7 to 13	7 to 13.5
	L-band		4 to 10	7 to 13.5
Power Variation ^{*2}		dB	± 0.2 (typ.)	± 0.2 (typ.)
Power Stability @1hour ^{*1, *2}		dB	± 0.01 (typ.)	± 0.01 (typ.)
Spectrum linewidth		kHz	5000 (typ.)	<100
Side mode suppression ratio (SMSR)		dB	>35 / 50 (typ.)	>40 / 55 (typ.)
Relative intensity noise ^{*3}		dB/Hz	-145 (typ.)	-145 (typ.)
Polarization extinction ratio		dB	>20	>20
Optical output connector		-	FC/APC or SC/APC	FC/APC or SC/APC
Power supply	Voltage	V	AC 100-240	AC 100-240
	Frequency	Hz	50/60	50/60
Dimensions (Both main and sub set)			19inch width, 3U high per unit	19inch width, 3U high per unit
Main unit		-	16 ports	16 ports
Sub unit (4 ports per slot)		-	32 ports	32 ports

*: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

Easy to use by touch screen panel



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