

# Wavelength Tunable Laser LTL-1500

## Key Features

- Computer Control with User Friendly GUI
- Low RIN Noise & High SMSR of >50dB
- Narrow Linewidth of <100kHz

## Applications

- Transmitter for Digital Coherent Transmission
- Fiber Optics Component Testing
- Local Oscillator for Coherent Detection



Parameter	Specification		
	C-band	L-band	Unit
Wavelength Coverage	1527.6 ~ 1565.5	1570.01 ~ 1608.15	nm
Frequency Coverage	191.5 ~ 196.25	186.55 ~ 190.95	THz
Frequency Fine Tuning Range	+/- 6		GHz
Frequency Fine Tuning Resolution	1		MHz
Frequency Accuracy Over EOL	+/- 1.5		GHz
Frequency Accuracy Over 96HR <sup>(1)</sup>	+/- 0.25		GHz
Optical Output Power Tunability <sup>(2)</sup>	7.0 ~ 15.5	7.0 ~ 13.5	dBm
Output Power Setting Resolution	0.01		dB
Power Stability Over 96HR <sup>(1)</sup>	+/- 0.05		dB
RIN (10MHz to 10GHz)	< -145		dB/Hz
Laser Linewidth @ 3dB (Lorentzian)	< 100		kHz
Instantaneous Laser Linewidth @ 10 μs	Typ. 35		kHz
Side Mode Suppression Ratio (SMSR)	< 50		dB
Polarization Extinction Ratio (PER)	> 20		dB
Channel Number (Decide Upon Order) <sup>(3)</sup>	1 or 2		CH
Output Fiber Type	Panda fiber 1550nm, slow axis aligned to connector key		
Output Optical connector	FC/SPC, FC/APC, SC/SPC, SC/APC		
Remote Control	USB		
Power Supply	AC 100~240 (50/60 Hz)		Vac
Operating Temperature	0 ~ +45		°C
Storage Temperature	0 ~ +60		°C
Dimension (WxHxD) (Benchtop) <sup>(4)</sup>	236 x 88 x 360		mm
Weight	5		kg

Note: (1) Measured at 25 +/- 2°C (2) High power available. C-band: Up to 18 dBm, L-band: Up to 16 dBm.

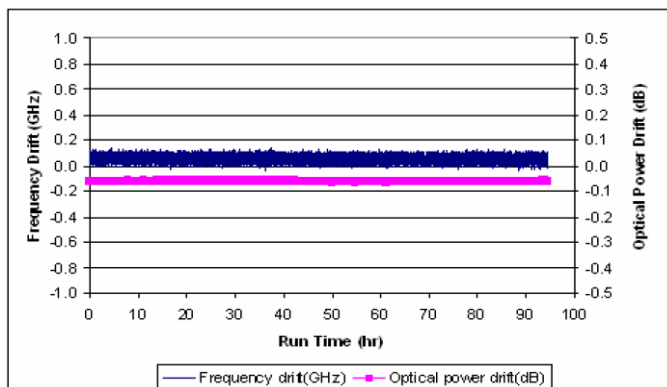
(3) Up to 4 channels available. (4) Module footprint available, please contact sales for more details.

## Order Instruction

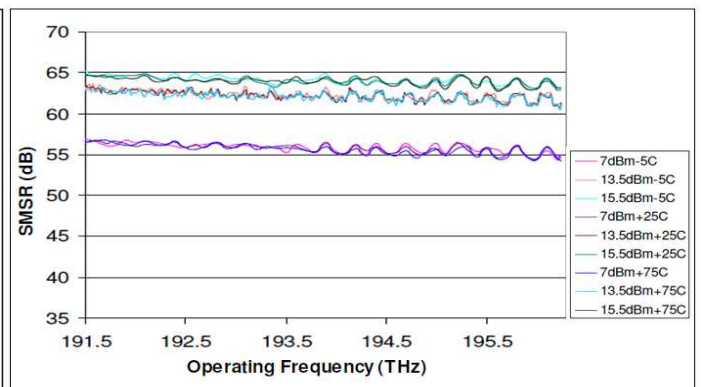
Model LTL-1500-XX-YY

XX: CX --> 1 C-band only, LX--> 1 L-band only, CCCC --> 4 C-bands, CL --> 1C & 1L

YY: FS --> FC/SPC, FA --> FC/APC, SS --> SC/SPC, SA --> SC/APC



Typical Frequency & Power Drift Over 96HR



Typical SMSR at Various Set Power & Temperature