

# 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.

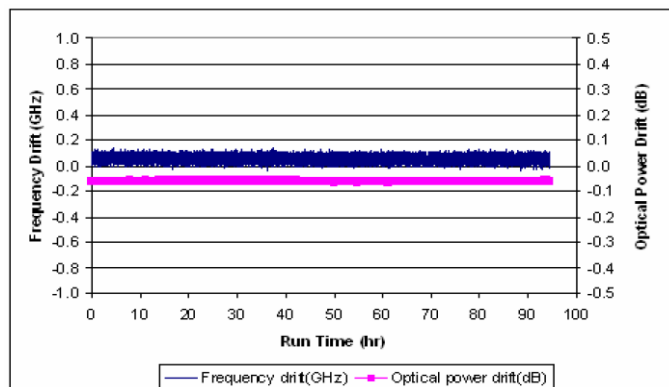
(3) Up to 4 channels available. (4) Module footprint available, please contact sales for more details.

## Order Instruction

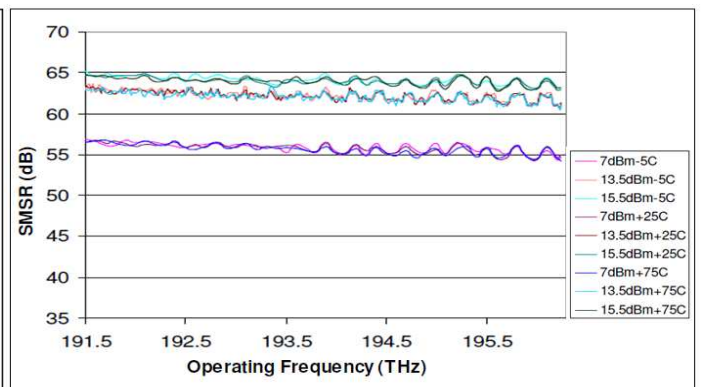
Model LTL-1500-XX-YY

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