

OSICS T100

Tunable Laser Module

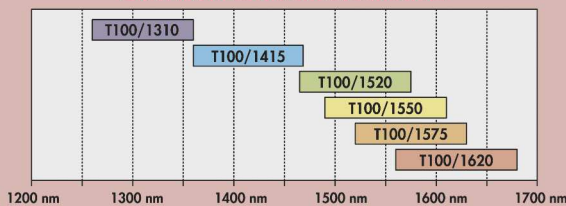
OSICS T100 are cost effective, external cavity tunable lasers modules utilizing Yenista's patented T100 cavity. This gives a minimum of 100 nm tuning range with narrow linewidth, high output power and ultra-low optical noise. This low noise significantly increases the dynamic range of a measurement. The OSICS platform provides front panel and remote control interfaces.



Key Features

- External cavity design
- O, E, S, C, L & U bands
- ≥100 nm tuning range
- +6 dBm output power
- Ultra-low SSE noise
- Narrow linewidth
- Modulation up to 1 MHz
- Simple front panel or remote control

Overview of available models



| | | T100 1310 | T100 1415 | T100 1520 | T100 1550 | T100 1575 | T100 1620 |
|---|--------------|---|-----------|-----------|-----------|-----------|-----------|
| Wavelength Range (nm) | P = +3 dBm | 1260-1360 | 1360-1470 | 1465-1575 | 1490-1610 | 1520-1630 | 1560-1680 |
| | P = +6 dBm | 1290-1340 | 1390-1445 | 1495-1555 | 1520-1590 | 1540-1610 | 1580-1660 |
| Signal to Source Spontaneous Emission Ratio ^{*1} | | > 90 dB / 0.1 nm typical | | | | | |
| Side Mode Suppression Ratio | | ≥45 dB | | | | | |
| Stability ^{*2, *3} | Wavelength | ±0.01 nm/h (±0.01 nm/24 h typical) | | | | | |
| | Output Power | ±0.01 dB/h (±0.01 dB/24 h typical) | | | | | |
| Relative Intensity Noise ^{*3, *4} | | -145 dB/Hz typical | | | | | |
| Spectral Width (FWHM) | | 150 kHz typical (coherence control off) | | | | | |
| | | >100 MHz (coherence control on) | | | | | |
| Wavelength Setting Accuracy ^{*3} | | ±0.2 nm | | | | | |
| Wavelength Setting Repeatability | | ±0.01 nm typical | | | | | |
| Wavelength Setting Resolution | | 0.01 nm (0.001 nm option R) | | | | | |
| Tuning Speed ^{*5} | | 10 nm/s typical | | | | | |
| Analogue Modulation | | 150 Hz to 200 MHz (external) | | | | | |
| Digital Modulation | | 500 Hz to 1 MHz (internal & external) | | | | | |
| Output Fiber Type | | SMF or PMF (option M) | | | | | |
| Output Connector | | FC / APC narrow key | | | | | |
| Laser Safety Classification | | Class 1M | | | | | |

All specifications are given after 60 minutes warm-up and apply for wavelengths not equal to any water absorption line.

*1. Measured over a 0.1 nm bandwidth ±1nm from the signal.

*2. At constant temperature.

*3. Measured at 0 dBm output power.

*4. Measured at 100 MHz.

*5. With the high resolution option (R) the tuning speed is 2.5 nm/s typical.

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Information and specifications are subject to change without notice.
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