

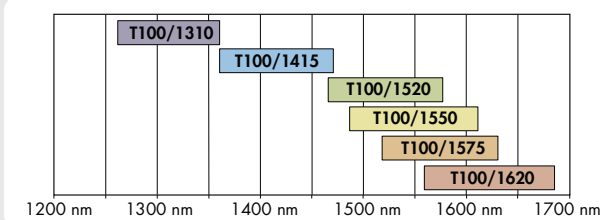
OSICS T100

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. Its kinematic chain has been designed for step-by-step wavelength tuning.

Key Features

- Narrow linewidth
- External cavity design
- O, E, S, C, L & U bands
- ≥ 100 nm step-by-step tuning
- +6 dBm output power
- Ultra-low SSE noise
- Digital Modulation up to 1 MHz
- Easy 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
SSSER		> 90 dB / 0.1 nm typical					
Side Mode Suppression Ratio*1		≥ 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*4		< -140 dB/Hz					
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 (step-by-step)*5*6		10 nm/s typical					
Analog Modulation		50 Hz to 50 MHz (external)					
Digital Modulation		50 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 ± 1 nm from the signal.
 *2: At constant temperature.
 *3: Measured at 0 dBm output power.
 *4: RIN within the range 100 MHz–3 GHz measured at +3 dBm output power with RBW = 30 kHz.
 *5: With the high resolution option (R) the tuning speed is 2.5 nm/s typ.
 *6: The kinematic chain of the laser does not allow for swept operation.

Contacts

- Americas** sales-am@yenista.com +1 805 367 4075
EMEA sales-emea@yenista.com +33 2 9648 3716
China sales-china@yenista.com +86 21 3251 7155
Asia Pacific sales-apac@yenista.com



光技術をサポートする
株式会社オプトサイエンス

<http://www.optoscience.com>

東京本社 〒160-0014 東京都新宿区内藤町1番地 内藤町ビルディング TEL:03-3356-1064
 大阪営業所 〒532-0011 大阪市淀川区西中島7-7-2 新大阪ビル西館 TEL:06-6305-2064
 名古屋営業所 〒450-0002 名古屋市中村区名駅2-37-21 東海ソフトビル TEL:052-569-6064

E-mail : info@optoscience.com