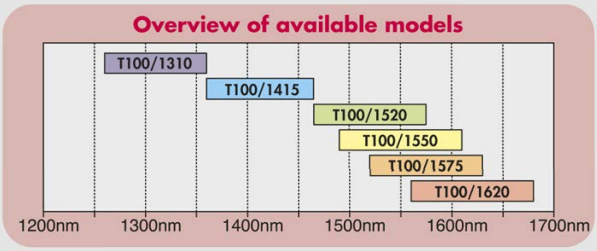
OSICS T100

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 measurment. The OSICS platform provides front panel and remote control interfaces.



External cavity design

O, E, S, C, L & U bands

>100 nm tuning range

+6 dBm output power

Ultra-low SSE

Narrow linewidth

Modulation up to 1 MHz

Simple front panel or remote control with OSICS platform

		T100 1310	T100 1415	T100 1520	T100 1550	T100 1575	T100 1620
Wavelength range (nm)	P = +3 dBm	1260 to 1360	1360 to 1470	1465 to 1575	1490 to 1610	1520 to 1630	1560 to 1680
	P = +6 dBm	1290 to 1340	1390 to 1445	1495 to 1555	1520 to 1590	1540 to 1610	1580 to 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 / 24h typical)					
	Output power	±0.01 dB / h (±0.01 dB / 24h 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)					
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)					
Output connector		FC / APC					
Laser safety classification		Class 1M					

All specifications are given after 60 minutes warm-up.
*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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