

OSICS ECL 1560

Tunable Laser Module

The OSICS ECL 1560/P6 module is a high-performance external cavity tunable laser using TUNICS technology which leads to a high output power over the whole tuning range.

The OSICS platform provides front panel and remote control interfaces.

Key Features

- External cavity design
- C & L bands
- 80 nm tuning range
- +6 dBm output power
- Narrow linewidth
- Modulation up to 1 MHz
- Simple front panel or remote control



Specifications

Wavelength Range (nm)	P = +0 dBm	1520 to 1600
	P = +6 dBm	1530 to 1580
Signal to Source Spontaneous Emission Ratio ^{*1}		≥ 45 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.

Information and specifications are subject to change without notice.
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