

OSICS ECL 1560

Tunable Laser Module



The OSICS ECL 1560/P6 module is a cost effective external cavity tunable laser using TUNICS technology.

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

The OSICS platform provides front panel and remote control interfaces.

Key Features

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

Specifications

Wavelength Range (nm)	P = +0 dBm	1520–1600
	P = +6 dBm	1530–1580
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*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 over 1530–1580 nm.

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

*6: The kinematic chain of the laser does not allow for swept operation.

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