

ECL 1560: External Cavity Tunable Laser Source Module

The 1560/P6 module is a high-performance External Cavity Laser using TUNICS technology which leads to a high output power over the whole tuning range:

- >80 nm tunability
- +6 dBm output power maximum
- 150 kHz narrow linewidth thanks to External Cavity Laser design.
- Intuitive control from OSICS mainframe front panel or remote operation
- Full suite of internal and external modulation capabilities
- OSCIS SWT with Automatic Power Control allows to combine up to 4 OSCIS ECL modules to build a larger wavelength range tunable laser



Specifications

		1560/P6
Wavelength range	P = 0 dBm	1520-1600 nm
	P = +6 dBm	1530-1580 nm
Signal to Source spontaneous Emission Ratio (SSSER) ¹		>45 dB/0.1nm
Wavelength accuracy ²		±0.2 nm
Wavelength stability ^{2, 3}		±0.01 nm / h ±0.01 nm / 24 h (typ.)
Wavelength setting resolution		0.01 nm (0.001 nm optional)
Tuning repeatability		±0.01 nm (typ.)
Tuning speed ⁴		10 nm/s (typ.)
Power stability ^{2, 3}		±0.01 dB/h; ±0.01 dB/24h (typ.)
Spectral width (FWHM)		150 kHz (typ.) (coherence control OFF) >100 MHz (coherence control ON)
Side mode suppression ratio (SMSR)		>45 dB (typ.)
Relative intensity noise ^{2, 4}		>145 dB/Hz (typ.)

1: Spontaneous Emission measured on a 0.1nm bandwidth at ±1 nm from the signal

2: After warm-up, for 0 dBm output power

3: At a constant temperature

4: Measured at an electrical frequency of 100 MHz

Options	
M	Polarization maintaining output fiber (orientation TE in slow axis, in line with connector key); SM13 fiber for T100-1300, SM15 otherwise
R	High resolution (1 pm). Tuning speed changes to 3 nm/s.

All information and specifications are subject to change without notice

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