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OSICS ECL 1270 nm to 1640 nm SPECIFICATIONS

External Cavity Laser Module



The ECL modules are high-performance External Cavity Lasers using Tunics technology which leads to a high output power over the whole tuning range.
The precision mechanism coupled to a stepper motor allows the wavelength to be tuned over more than 80 nm. Various wavelength range options are available to fulfill all needs in DWDM applications from 1260 nm to 1640 nm. The ECL 1560 and the ECL 1600 offer more than +6 dBm at peak power. Each module can be controlled from the front panel of the mainframe or through the remote interface. In addition, the modules and the mainframe offer a full suite of internal and external modulation capabilities.

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Specifications						
OSICS-ECL		ECL-1300	ECL-1400	ECL-1480	ECL-1560/P6	ECL-1600/P6
Wavelength range	**P = 0 dBm**	1270-1340 nm	1340-1430 nm	1440-1520 nm	1520-1600 nm	1560-1640 nm
	P = 6 dBm				1530-1580 nm	1570-1620 nm
Wavelength accuracy *1		±0.2 nm				
Wavelength stability *1, *2		±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		10 nm/s (typ.)				
Power stability *1, *2		±0.01 dB / h; ±0.01 dB / 24 h (typ.)				
Spectral width (FWHM)		150 kHz (typ.) (coherence control OFF) >100 MHz (coherence control ON)				
Side mode suppression ratio *1		>45 dB				
Relative intensity noise *1, *3		>145 dB/Hz (typ.)				

*1: After warm-up, for 0 dBm output power.
*2: At a constant temperature.
*3: Measured at an electrical frequency of 100 MHz.

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Ordering Information

The ECL modules are high-performance External Cavity Lasers using Tunics technology which leads to a high output power over the whole tuning range. The precision mechanism allows the wavelength to be tuned over more than 80 nm.

• Model Number:

ECL-1300
ECL-1400
ECL-1480
ECL-1560 / P6
ECL-1600 / P6

Please specify the model name followed by the options.
Example: ECL - 1560 / P6 / M / R

• Options

Use the following code references that correspond to the available option:

Code	Description
M	Polarization maintaining output fiber (orientation TE in slow axis, in line with connector key)
R	High resolution: 1 pm resolution (tuning speed changes to 3 nm/s)

• Accessories

Use the following descriptions that correspond to the available accessories:

Description
- LabView driver for OSICS
- FO Jumper FC-APC/FC-APC
- FO Jumper FC-APC/FC-PC
- Polarization maintaining FO Jumper FC-APC/FC-APC
- Polarization maintaining FO Jumper FC-APC/FC-PC

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