

# OSICS DFB

## High Power Distributed Feed Back Laser



The DFB modules are high-performance Distributed Feed Back laser diodes.

- OSICS-DFB offers more than +13 dBm of optical power coupled in a polarization maintaining fiber with a remarkable 5 pm wavelength stability over one hour. The internal wavelength calibration yields a 30 pm accuracy and the wavelength can be finely tuned over 1.8 nm (typ.) with the internal temperature control.
- OSICS-DFB is also available at 1310 nm.
- Other wavelengths are available on request.
- Each module can be controlled from the front panel of the mainframe, or through the remote interface. The modules and the mainframe offer a full suite of internal and external modulation capabilities, and also feature a Brillouin effect suppression function.

	Osics DFB C- and L-band	Osics DFB 1310	Osics DFB SP
ITU-T wavelength	1529.55-1610.05 nm * <sup>1</sup>	1310 nm ±10 nm	Other wavelengths: please consult for availability and detailed specifications
Output power	+13 dBm		
Wavelength tuning range	1.6 nm (1.8 nm typ.)		
Wavelength accuracy * <sup>2</sup>	±0.03 nm		
Wavelength stability * <sup>2, *3, *4</sup>	±0.005 nm / h (±0.005 nm / 24 h typ.)		
Power stability * <sup>2, *3, *4</sup>	±0.01 dB / h (±0.01 dB / 24 h typ.)		
Spectral width (FWHM)	<10 MHz		
Side mode suppression ratio * <sup>2</sup>	>35 dB (45dB typ.)		
Relative intensity noise * <sup>2, *5</sup>	>140 dB/Hz (typ.)		
Optical interface	FC/APC connector on PMF. PER >17dB		

\*1 : The ITU-T wavelength is user-selected at time of order on the ITU-T grid, using the following format: OSICS-DFB-XXX.XX where XXX.XX is the frequency in THz.\*2 : At a constant temperature.

\*2 : After warm-up, for Pmax output power.

\*3 : At a constant temperature.

\*4 : Measured with an APC connector on the powermeter side.

\*5 : Measured at an electrical frequency of 100 MHz.



Osics DFBs Typical Application: WDM grid Simulation

### Ordering Information

C&L band : Osics DFB-XXX.XX where XXX.XX is the frequency in THz  
1310 : Osics DFB 1310

All information and specifications are subject to change without notice

**Yenista**  
OPTICS