

# OSICS DFB

## High Power Distributed Feed Back Laser

### 1260 to 1675nm



The DFB modules are high-performance Distributed Feed Back laser diodes. The user-defined wavelengths can be chosen on the ITU-T grid in the C- or L-band.

- 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 for channel monitoring in DWDM systems.
- Other wavelength from 1260 to 1675nm ( CWDM, 1383nm...etc) 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	1527.2-1610.05 nm *1	1310 nm ±20 nm	1260 to 1675nm
Output power	+13 dBm		+13dBm*6
Wavelength tuning range	1.6 nm (1.8 nm typ.)		Please Consult for availability and detailed specifications
Wavelength accuracy *2	±0.03 nm		
Wavelength stability *2, *3, *4	±0.005 nm / h (±0.005 nm / 24 h typ.)		
Power stability *2, *3, *4	±0.01 dB / h (±0.01 dB / 24 h typ.)		
Spectral width (FWHM)	<30 MHz		
Side mode suppression ratio *2	>40 dB	>30 dB	
Relative intensity noise *2, *5	>145 dB/Hz (typ.)		

\*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.

\*6 : 15mW from 1625 to 1675nm

#### Ordering Information

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

#### Accessories

- Osics Mainframe (please refer to individual data sheet for full info)
- LabView driver for Osics
- Fiber optic jumper FC-APC/FC-APC
- Fiber optic jumper FC-APC/FC-PC
- Polarization maintaining fiber optic jumper FC-APC/FC-APC
- Polarization maintaining fiber optic jumper FC-APC/FC-PC

#### Contact Information

We are happy to discuss your laser source requirements, please contact YENISTA OPTICS at [sales@yenista.com](mailto:sales@yenista.com)

All information and specifications are subject to change without notice

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OPTICS

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# OSICS – 8-Channel Modular Platform



The OSICS platform offers the highest flexibility and largest choice of plug-ins required in fiberoptic system testing, particularly for Dense Wavelength Division Multiplexing (DWDM). Up to 8 plug-in modules can be mixed and matched in a single OSICS mainframe, thus fulfilling all needs for applications requiring multi-wavelength sources.

OSICS features a complete line of modular sources including:

- **OSICS-ECL**, stepper tunable external cavity lasers based on TUNICS technology covering all telecom band;
- **OSICS-DFB**, High power distributed feedback laser diodes;
- **OSICS-TLS**, high power lasers tunable on ITU grid;
- **OSICS-SWT**, smart optical switch featuring Automatic Power Control to be used with 2 to 4 Osics ECL modules .

## Key features:

- Affordable price – even if only one laser is used.
- Ease of use : simultaneous reading of Power and Wavelength info of the 8 modules.
- Full band telecom laser: 380 nm in one single compact instrument (ECL Full Band).

<b>OSICS mainframe</b>	Dimensions (W x H x D)		448 x 133 x 370 mm3
	Power supply		100 to 240 V, 50 to 60 Hz
	Control		Instrument front panel RS-232 C IEEE-488.2*1
	Weight (without any module)		8.1 kg
<b>OSICS modules</b>	Optical interface	ECL, DFB 1310	FC-APC connector on Corguide™ SMF-28 fiber
		DFB (C & L band), TLS	FC-APC connector on polarization maintaining fiber
	Output isolation		35 dB
	Return loss		60 dB
	Analog modulation	ECL, DFB	150 Hz - 200 MHz (external modulation)
	Digital modulation	ECL	500 Hz - 1 MHz (internal or external)
		DFB	1 Hz - 1 MHz (internal or external)
	Dimensions (W x H x D)		35 x 130 x 250 mm3 (single slot)
	Weight		1 kg (0.7 kg for OSICS-DFB)
	Environment	Operating temperature range*2	
Warm up time (room temperature)		2 hours max (1 hour typ.)	

\*1 : Tested and validated with National Instruments GPIB board.

\*2 : ECL module operates from +15 to +30°C (+59 to 86° F).

## Contact Information

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