

OSICS DFB LANWDM

Distributed Feedback Laser

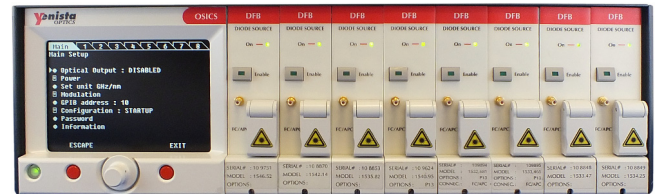
The OSICS DFB LANWDM modules are based on high-performance distributed feedback laser diodes.

Specifications

		SMF	PM13	
Models	Channel 1	1295.56 nm / 231.4 THz		
	Channel 2	1300.05 nm / 230.6 THz		
	Channel 3	1304.58 nm / 229.8 THz		
	Channel 4	1309.14 nm / 229.0 THz		
Wavelength	Channel center	Grid matched		
	Tuning range*1	1.6 nm (1.8 nm typ.)		
	Accuracy*2	±0.03 nm		
	Stability over 1 hour*2,*3,*4	±0.005 nm		
	Stability over 24 hours*2,*3,*4	±0.005 nm typ.		
Power	Maximum	10 mW		
	Stability over 1 hour*2,*3,*4	±0.01 dB		
	Stability over 24 hours*2,*3,*4	±0.01 dB typ.		
	Optical Isolation	> 30 dB		
	RIN*5	< -130 dB/Hz		
Spectrum	Laser line width	< 10 MHz		
	SMSR*2	> 30 dB (40 dB typ.)		
Modulation	TTL	Internal	1 Hz to 890 kHz	
		External	16 Hz to 890 kHz	
	Analog (external / front panel)		150 Hz to 150 MHz	
	SBS Suppression (internal)*6	Waveform	sine	
		Freq.range	10 kHz to 100 kHz	
	Modulation depth	0 to 15%		
Interfaces on Module Front Panel*7	Enable key with status LED	Power up laser		
	Optical fiber	SMF	PM13	
	Fiber alignment to connector key	n/a	Slow axis	
	PER	n/a	>17 dB	
	Optical connector	FC/APC narrow key		
	Electrical Connector	Coaxial SMB, 50 Ω		
Others	Laser safety	Class 1 M		
	Dimensions (WxHxD)	35 x 128 x 230 mm		
	Weight	1.1 kg		

Key Features

- External & Internal LF Modulation
- Stabilized lasers for LR4 & ER4 testing of Silicon Photonics chips
- +10 dBm output power from a single mode fiber with a stability of 0.01 dB over 1 hour
- 30 pm wavelength accuracy and a stability of 5 pm over one hour
- Wavelength tuning over 1.8 nm (typ.) with the internal temperature control



- *1: Location of channel center: lower boundary of the range + 0.4 nm < channel center < upper boundary of the range - 0.4 nm.
 *2: After warm-up and at maximum power.
 *3: At a constant temperature.
 *4: Measured with an APC terminated jumper on a powermeter.
 *5: RIN within the range 100 MHz–20 GHz measured at 10 dBm output power with RBW = 30 kHz.
 *6: SBS = Stimulated Brillouin Scattering.
 *7: See OSICS Mainframe Data Sheet for details on OSICS common specifications and interfaces on the rear panel.

Contacts

- Americas** sales-am@yenista.com +1 805 367 4075
EMEA sales-emea@yenista.com +33 2 9648 3716
China sales-china@yenista.com +86 21 3251 7155
Asia Pacific sales-apac@yenista.com

Information and specifications are subject to change without notice
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