

OSICS DFB LANWDM

DISTRIBUTED FEEDBACK LASER



The OSICS LANWDM modules, based on high-performance distributed feedback laser diodes, are perfect for LR4 & ER4 testing of Silicon Photonics chips

SPEC SHEET

KEY FEATURES

External & Internal LF Modulation

+10 dBm output power from a single mode fiber with a stability of ± 0.01 dB over 1 hour

± 30 pm wavelength accuracy and stability of ± 5 pm over one hour

Wavelength grid matched to LANWDM channels with typical tuning range of 1.8 nm

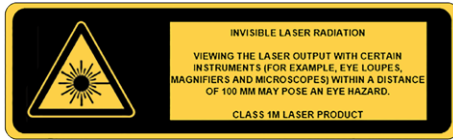
SPECIFICATIONS

		SMF	PM13
Models ^a	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 ^a	Grid matched	
	Tuning range ^a	1.6 nm (1.8 nm typ.)	
	Accuracy ^b	±0.03 nm	
	Stability over 1 hour ^{b, c, d}	±0.005 nm	
	Stability over 24 hours ^{b, c, d}	±0.005 nm typ.	
Power	Maximum	10 mW	
	Stability over 1 hour ^{b, c, d}	±0.01 dB	
	Stability over 24 hours ^{b, c, d}	±0.01 dB typ.	
	Optical isolation	> 30 dB	
	RIN (Relative intensity noise) ^e	< -130 dB/Hz	
Spectrum	Laser line width	< 10 MHz	
	SMSR ^b	> 30 dB (40 dB typ.)	
Modulations	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) ^f	Waveform	sine
		Frequency range	10 kHz to 100 kHz
		Modulation depth	0 to 15%
Interfaces on module front panel ^g	Enable key with status LED	Power up laser	
	Optical fiber	SMF	PM13
	Fiber alignment to connector key	n/a	Slow axis
	PER (Polarization extinction ratio)	n/a	> 17 dB
	Optical connector	FC/APC narrow key	
	Electrical connector	Coaxial SMB – 50 Ω	
Others	Laser safety	Class 1 M	
	Dimensions (W x H x D)	35 x 128 x 230 mm	
	Weight	1.1 kg	

Notes

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

LASER SAFETY



ORDERING INFORMATION

OS-DFB-L-XX-XX-58

Channel number

F = 228,2 THz + 800 GHz x Channel number

001-004

Connector

58 = FC/APC

Output fiber

00 = SMF28 singlemode output fiber

P = PM13 polarization maintaining fiber

Example: OS-DFB-L-004-00-58

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