

OSICS DFB LANWDM

DISTRIBUTED FEEDBACK LASER

- The OSICS LANWDM modules, based on high-performance distributed feedback laser diodes, are perfect for LR4 and ER4 testing of silicon photonics chips.

KEY FEATURES

External and 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

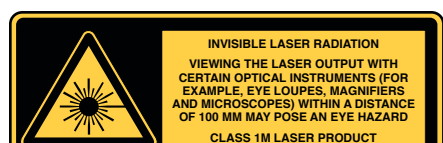
Wavelength grid matched to LANWDM channels with typical tuning range of 1.8 nm



SPECIFICATIONS

		SMF	PM13
Models ^a	Channel 1	1309.14 nm / 229.0 THz	
	Channel 2	1304.58 nm / 229.8 THz	
	Channel 3	1300.05 nm / 230.6 THz	
	Channel 4	1295.56 nm / 231.4 THz	
Wavelength	Channel center ^a	Grid matched	
	Tuning range (nm) ^a	1.6 (1.8 typical)	
	Accuracy (nm) ^b	±0.03	
	Stability over 1 hour (nm) ^{b, c, d}	±0.005	
	Stability over 24 hours (nm) ^{b, c, d}	±0.005 typical	
Power	Maximum (mW)	10	
	Stability over 1 hour (dB) ^{b, c, d}	±0.01	
	Stability over 24 hours (dB) ^{b, c, d}	±0.01 typical	
	Optical isolation (dB)	> 30	
	Relative intensity noise (RIN) (dB/Hz) ^e	< -130	
Spectrum	Laser line width (MHz)	< 10	
	SMSR (dB) ^b	> 30 (40 typical)	
Modulations	TTL	Internal External	1 Hz to 890 kHz 16 Hz to 890 kHz
	Analog (external/front panel)		150 Hz to 150 MHz
	Stimulated brillouin scattering (SBS) suppression (internal)	Waveform Frequency range (kHz) Modulation depth (%)	Sine 10 to 100 0 to 15
Interfaces on module front panel ^f	Enable key with status LED	Power up laser	
	Optical fiber	SMF	PM13
	Fiber alignment to connector key	n/a	Slow axis
	Polarization extinction ratio (PER) (dB)	n/a	> 17
	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 mm x 128 mm x 230 mm (1 3/8 in x 5 in x 9 in)	
	Weight	1.1 kg (2.43 lb)	

LASER SAFETY



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. See OSICS mainframe specifications sheet for details on OSICS common specifications and interfaces on the rear panel.



ORDERING INFORMATION

OS-DFB-LXX-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-L004-00-58

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