

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.

SPEC SHEET

KEY FEATURES

External and internal LF modulation

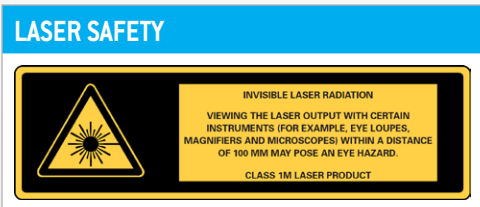
10 dBm output power from a single mode fiber with a stability of ± 0.01 dB over 1 hour

± 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)	



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-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-L004-00-58

EXFO headquarters T +1 418 683-0211 **Toll-free** +1 800 663-3936 (USA and Canada)EXFO serves over 2000 customers in more than 100 countries. To find your local office contact details, please go to www.EXFO.com/contact.

EXFO is certified ISO 9001 and attests to the quality of these products. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit www.EXFO.com/recycle. **Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.**

For the most recent version of this spec sheet, please go to www.EXFO.com/specs.

In case of discrepancy, the web version takes precedence over any printed literature.