### Features:

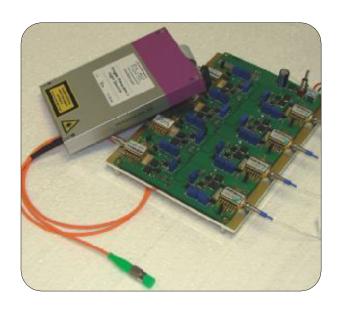
- sub-MHz spectral width
- single mode fiber coupling
- high reliability

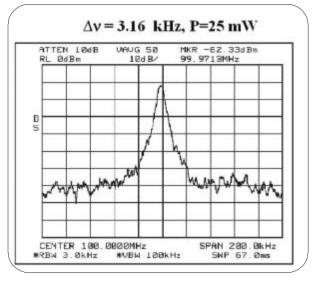
# Single-Frequency Diode Lasers

These diode lasers are compact single frequency light sources with a sub-MHz linewidth (in cw mode). A modulation input is possible on demand. Available wavelengths for standard products are in the range of 1530 nm - 1565 nm (other wavelength ranges can be discussed).

The output power in the range of 8-15 mW may be post-amplified by an integrated EDFA. Also wavelength multiplexing is available for customized versions.

This narrowband diode lasers can be used in many test & measurement applications, in particular all typical and advanced spectroscopic measurements. The mode-hop free tuning range is typically 20 GHz and the total tuning range up to 100 GHz (0.8 nm).

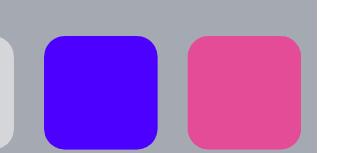


















## **Specifications:** Single-Frequency Diode Lasers

Parameter*	DL-C11xxxX1xxM01	DL-C10xxxL1xxM01	DL-C10xxxD1xxM01	unit
wavelength range	1525-1565	1525-1565	1525-1610	nm
spectral width	max. 10	max. 50	max. 500	kHz
side mode suppression	min. 40	min. 40	min. 33/typ. 40	dB
tuning range (thermal)	max. 100	max. 100	max. 100	GHz
mode-hop-free tuning	typ. 20	typ. 20	typ. 30	GHz
wavelength stability**	50	50	200	MHz
fast tuning (power)	typ. 1	typ. 1	typ. 2	MHz/µW
package size	145x100x17	145x100x17	145x100x17	cmm

<sup>\*</sup> after warm-up

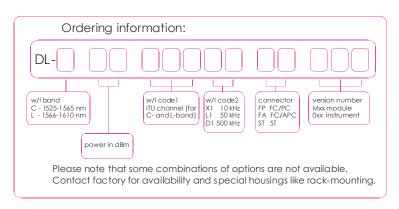
#### Options:

A: multi-wavelength versions can be requested

B: remote control (on request)

C: higher power with booster-EDFA available
D: instrument versions and special packaging

Please indicate requirements by selecting options from the table or filling in desired values that still need to be confirmed by the manufacturer.



### Specification:

size: 145 x 100 x 17 cmm (module)

210 x 290 x 95 cmm (instrument)

weight: < 500 g (instrument < 4 kg) supply: 3 A max. @5V DC (module)

< 40 W @ 100-240 V AC/50-60 Hz

(instrument)

working temperature: 0°C-40°C (non-condensing)

storage temperature: -40°C-85°C

complies with CE

All information is subject to change without any notice. No responsibility is assumed for its use. The manufacturer reserves the right to make product changes without notice. It is believed that the content is accurate though we assume that there is no responsibility for damage or injury to other than the product itself if incorrect or absolete data of this document was used. 08/05/31

<sup>\*\* 15</sup> min