



Features:

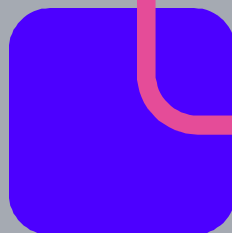
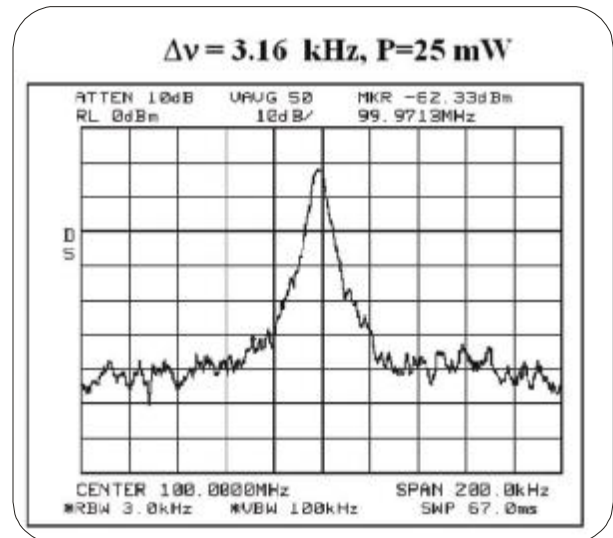
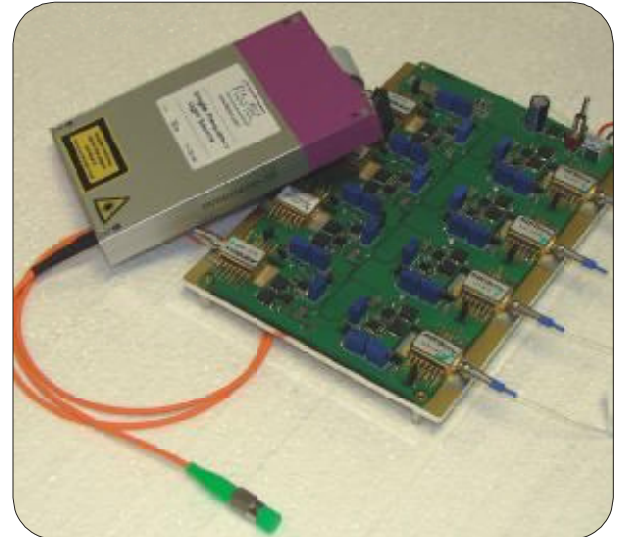
- sub-MHz spectral width
- single mode fiber coupling
- high reliability

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/ μ W
package size	145x100x17	145x100x17	145x100x17	cmm

* after warm-up

** 15 min

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.

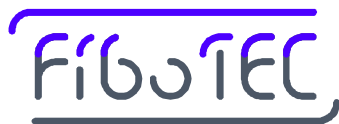
Ordering information:

DL- [] [] [] [] [] [] [] [] [] [] [] []

w/l band C - 1525-1565 nm L - 1566-1610 nm	w/l code1 ITU channel (for C- and L-band)	w/l code2 X1 10 kHz L1 50 kHz D1 500 kHz	connector FP FC/PC FA FC/APC ST ST	version number Mxx module 0xx instrument
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power in dBm

Please note that some combinations of options are not available.
Contact factory for availability and special housings like rack-mounting.



Fibotec Fiberoptics GmbH
 Herpfer Strasse 40
 98617 Meiningen
 Germany

phone: +49 (0) 3693 8813-200
 fax: +49 (0) 3693 8813-201
info@fibotec.com
www.fibotec.com

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

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