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For Life Science Applications

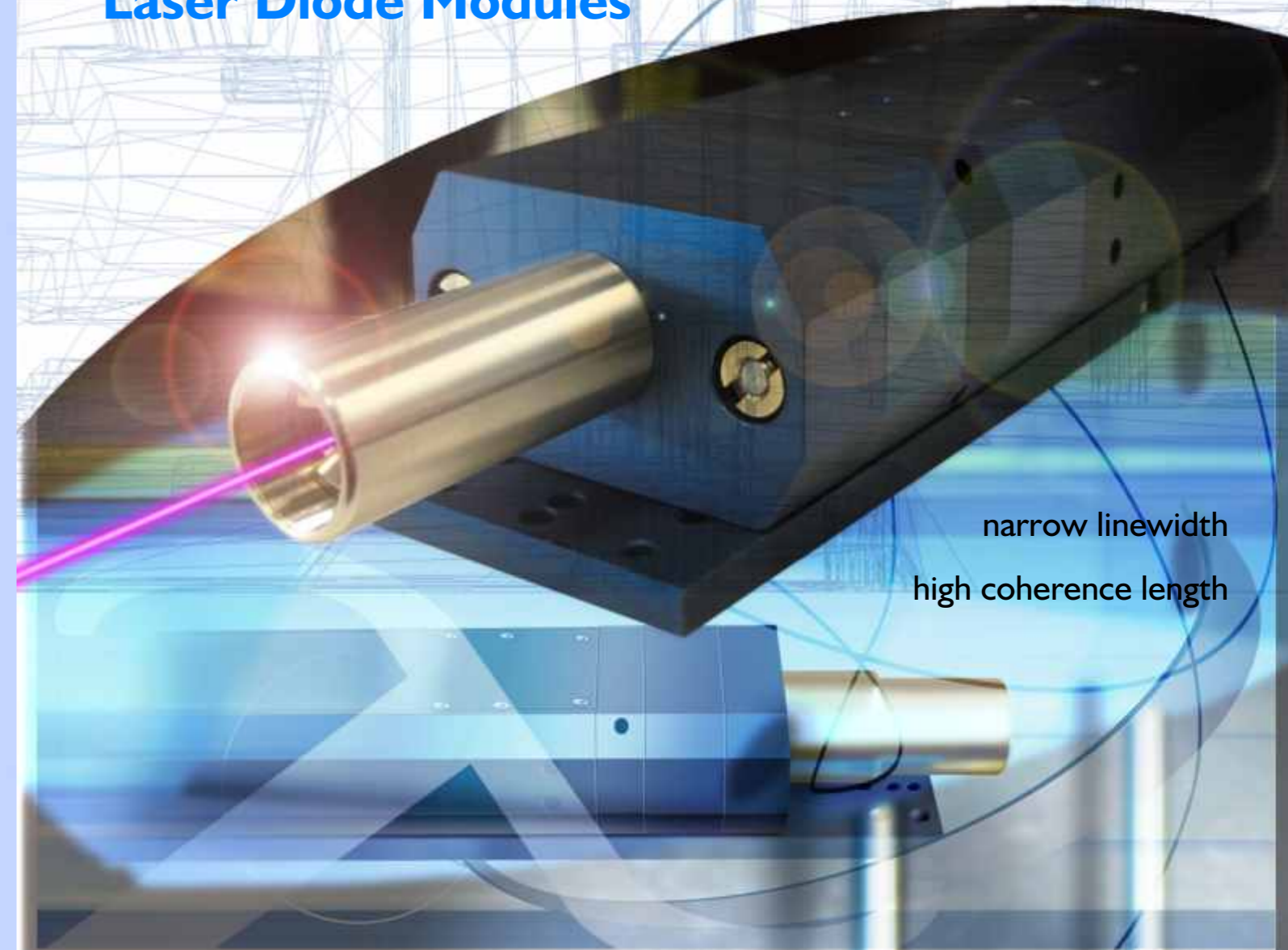
Germany, Austria, Switzerland, Scandinavia

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Narrow Bandwidth DFB Laser Diode Modules



narrow linewidth
high coherence length



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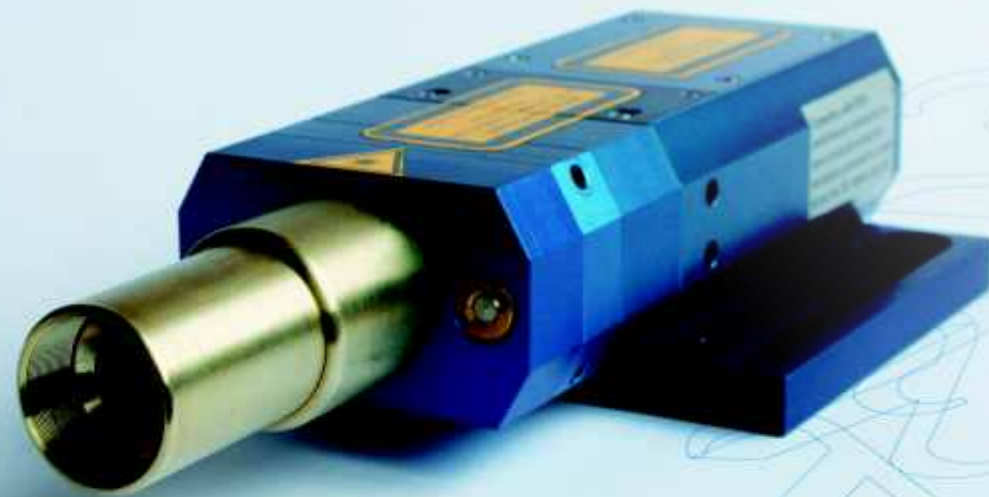
ISO 9001:2008

DFB Laser Diode Modules

Omicron's Photon-Series lasers offer high performance in all applications where narrow linewidth, stable wavelength and high coherence length is needed.

The **Redphoton® DFB**, "**D**istributed **F**eed**B**ack" laser systems offer narrow linewidth (<2MHz), high output power and optional tunability. The integrated DFB laser diodes are using Bragg gratings, integrated into the active region of the semiconductor, to provide single-frequency operation and high coherence (coherence length up to 250m). The optionally fibre coupled **Redphoton®** DFB laser modules, which are available in a wide range of IR wavelengths are ideal light sources for applications like RAMAN spectroscopy or THz generation, alkaline spectroscopy, gas detection and many others.

Like all Photon-Series laser diode modules they are based on the Omicron modular principle which offers a huge variety of options like direct fibre coupling, focussing and collimation optics, optical isolators, shutters, electro-optical monitoring and many more.



Redphoton® CWA.L.NB

Wavelengths & Powers
(other wavelengths and powers
on request)

Single-Mode:
760nm / 40mW
763nm / 30mW
773nm / 75mW
780nm / 80mW
785nm / 80mW
852nm / 150mW
937nm / 100mW
976nm / 150mW
1060nm / 150mW

Beam diameter
(other diameters on request)

1.25mm (1/e²) +/- 0.25mm

Beam quality M²

< 1.2

Astigmatism (corrected)

< 0.2*ZR

Beam ellipticity

< 1.1:1

Optical bandwidth

< 10 MHz (2 MHz typical)

Polarisation

> 100:1 vertical

Power stability

< 0.5% / h

Noise 0Hz-100MHz

< 0.5% peak <> peak

Modulation speed

Analogue: 100Hz
Digital: 10kHz

Supply voltage

24VDC, 2 Amp.

Features

Safety interlock
RS-232 Interface
Remote connector

Options

LDM.COL - collimator objective
LDM.FOC - customized focussing objective
LDM.AAC - Automatic Aging Compensation
LDM.FASY.XXX - fibre coupling unit
LDM.24VPSU - worldwide power supply